V18174

aiwa

HV-FX4800K

VHS PAL

STEREO VIDEO CASSETTE RECORDER

OPERATING INSTRUCTIONS

VIDEO Plus+™

Warning
(FOR USE IN THE UNITED KINGDOM)

This appliance is supplied with a fitted three pin mains plug.
A 3 amp fuse is fitted in the plug. Should the fuse need to be replaced, use a 3 amp fuse approved by ASTA or BSI to BS 1362. When replacing the fuse, you must ensure that any removable fuse covers are correctly refitted.
If you should lose the fuse cover, please contact your nearest AIWA dealer.

DO NOT CUT OFF THE PLUG FROM THIS APPLIANCE

If the plug fitted is not suitable for the power points in your home, or the cable is too short to reach a power point, obtain an appropriate safety approved extension lead or adaptor. If in any doubt please consult a qualified electrician.

If the plug is cut off, remove the fuse and dispose of the plug immediately. **THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO A NY 13 AMP SOCKET.**

If a new plug is to be fitted please ensure it contains a 3 amp fuse, otherwise the circuit should be protected by a 5 amp fuse at the distribution board.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE — NEUTRAL
BROWN — LIVE

As the colours of the wires in the mains lead of this appliance may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked by the letter L or coloured RED.

DO NOT connect either the BLUE or BROWN wire of the mains lead to the earth terminal (marked with the letter E or by the earth symbol ⏚ or coloured GREEN or GREEN/YELLOW) of a three pin plug.

Warning

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Precautions

Important

- Use only VHS-marked cassettes with this unit.
- This unit is designed to receive and record using the PAL colour system, and playback using the PAL and NTSC colour system.
- Audio/video material may consist of copyrighted work which must not be recorded without the authorization of the owner of the copyright. Please refer to the relevant laws in your country.

Installing

- The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm clearance from the rear and the top of the unit, and 5 cm from the each side.
  - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
  - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
- Keep the unit away from radiators and other heat sources.
- Avoid using the unit near strong magnetic fields.
- Use the unit in the horizontal position only.
- Install the unit at least one meter away from radios and receivers. Otherwise, noise may occur during radio reception.
- Do not place heavy objects on the unit.

Cautions

- Do not open the cabinet of the unit.
- Do not push any kind of object into the unit through the cabinet openings as they could touch current carrying parts, which may result in short-circuit, fire, electric shock, or damage to the unit.
- Do not spill liquid of any kind on this unit. If any liquid is spilled over the unit, immediately disconnect the unit from the mains, and consult a qualified service engineer.
- Do not put your hand into the tape compartment.
- When the system is not used for an extended period of time, disconnect the AC cord. When the cord is plugged in, a small amount of current continues to flow to the system, even when the power is turned off.
- When there is lightning, immediately disconnect the unit from the mains and never touch the aerial wire.

Note on moisture condensation

Moisture may condense inside the unit and cause damage to the unit and tape when the unit is moved from a cold to a warm place, after heating a cold room, or under conditions of high humidity. If any of above conditions is applied, place the unit in a well-ventilated area and wait for about two hours before operating the unit, until the unit is warmed to room temperature and the moisture evaporates completely.

Maintenance

Professional periodic maintenance is required to keep the optimum performance of the unit. Maintenance and adjustments to internal components should not be done by the user. Please consult your dealer if you have any trouble with the unit.

Cleaning the unit

Wipe the cabinet clean using a damp soft cloth with diluted detergent. Never use thinner or benzine since they will damage the cabinet surface.

Cleaning the video heads

Although the unit cleans the video heads automatically, dirt may be accumulated after a long period of use. If the playback picture is blurred or noisy while the TV programmes are received clearly, the video heads may be dirty. In this case, clean the video heads using a commercially available video heads cleaning tape.

ATTENTION

- Please ensure that you keep a record of the Security "PIN" code in a safe place, in case you forget it.
- If your Video Recorder needs to be serviced, please ensure that the Security feature is turned OFF, otherwise the repairer will be unable to service the unit.
- If you have difficulty with the Security feature, please contact the Aiwa Customer Helpdesk on: **0990 902902.**

Welcome

Thank you for purchasing this AIWA product. To optimise the performance of this unit, please read through this manual carefully.

Main features of this VCR

Security Protection

You can limit the number of users if you enter your name, post code, and PIN code into this VCR. The VCR doesn't work if PIN code is entered incorrectly.

VIDEO Plus+* system and One-Touch Playback

You can easily set the timer with the VIDEO Plus+ system.
The recorded TV programmes with the timer can be played back quickly with One-Touch Playback.

PDC (Programme Delivery Control)

You do not have to worry anymore about broadcast delays, early starts, or interruptions.
The PDC system adjusts the start and finish times of the TV programmes.

NICAM broadcast

You can receive, record, and play back stereo and bilingual TV programmes.

Auto Set-Up

You can easily finish the VCR settings of the clock and TV channels at once.

Function Guide

The jog dial will be illuminated in various ways according to the operation conducted.

Shuttle Ring and Jog Dial

High speed and slow motion playback in various speeds can be done with the shuttle ring.
Frame-by-frame playback in various speeds is at your command with the jog dial.

NTSC Playback on PAL-TV

Tapes recorded in the NTSC system can be played back on this VCR.

* VIDEO Plus+

VIDEO Plus+ and PlusCode are trade marks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

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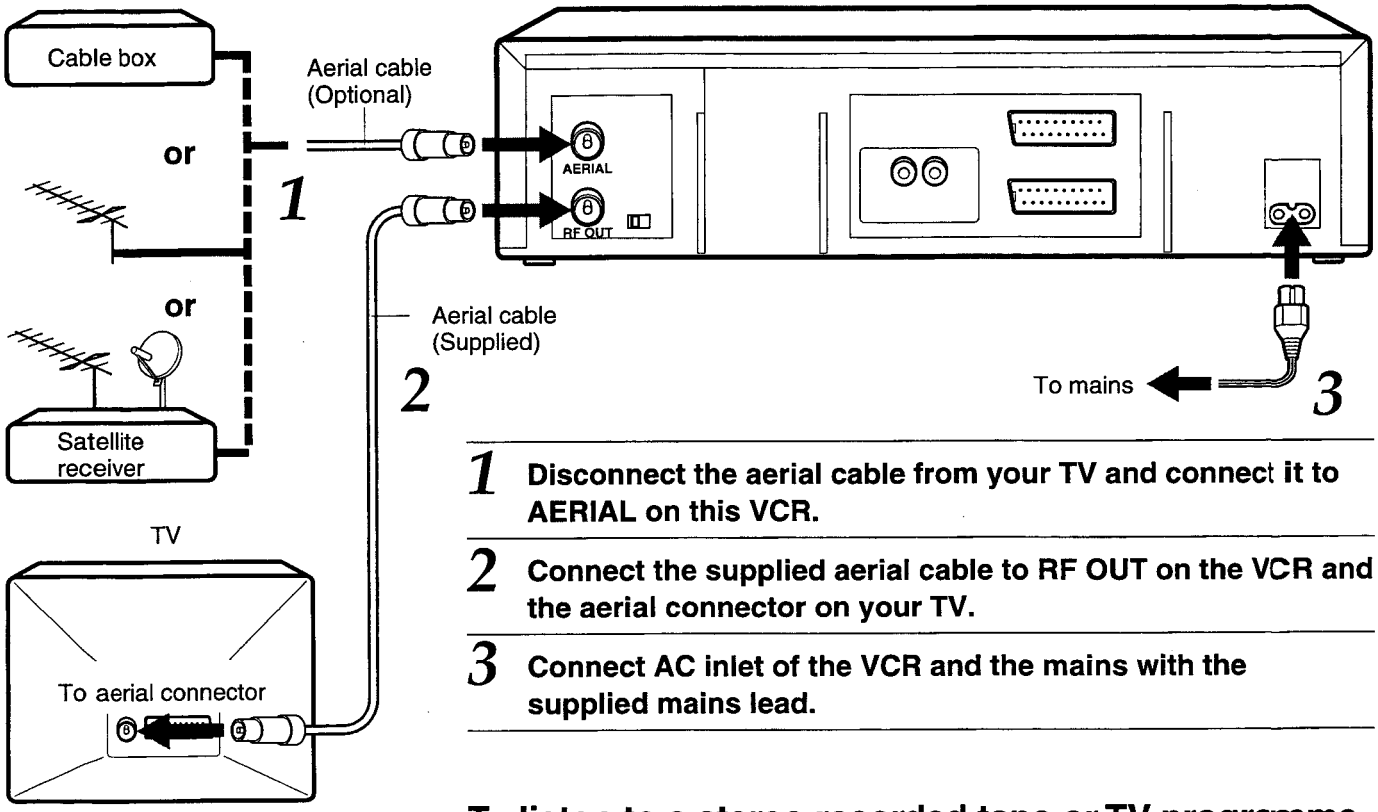
Connecting the VCR

Basic connections



1 **Disconnect the aerial cable from your TV and connect it to AERIAL on this VCR.**

2 **Connect the supplied aerial cable to RF OUT on the VCR and the aerial connector on your TV.**

3 **Connect AC inlet of the VCR and the mains with the supplied mains lead.**

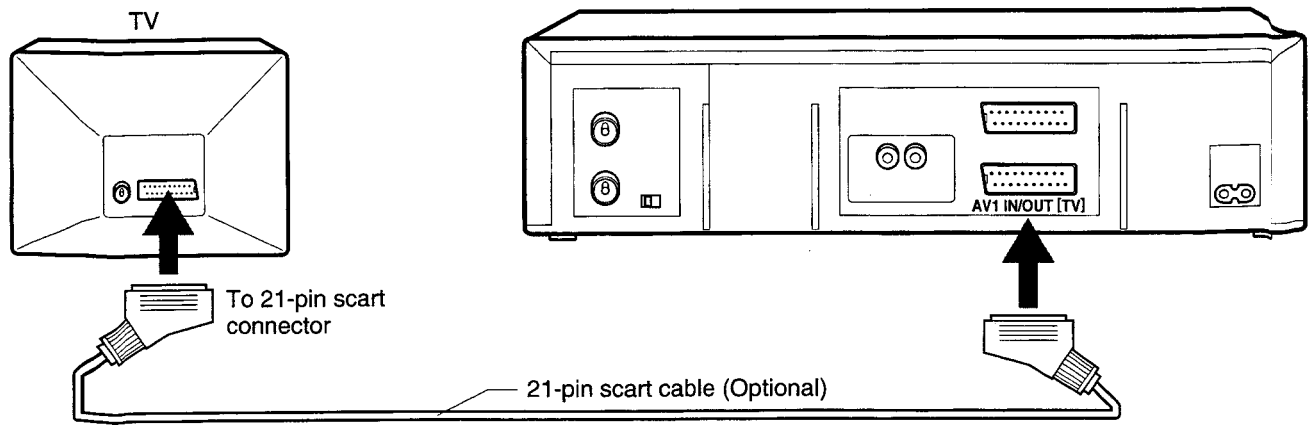
To listen to a stereo recorded tape or TV programme

Connect the VCR to a stereo TV with an optional 21-pin scart cable, or stereo system with the supplied audio cable, as shown in "Additional connections" below. The sound from the VCR's aerial output is monaural.

Additional connections

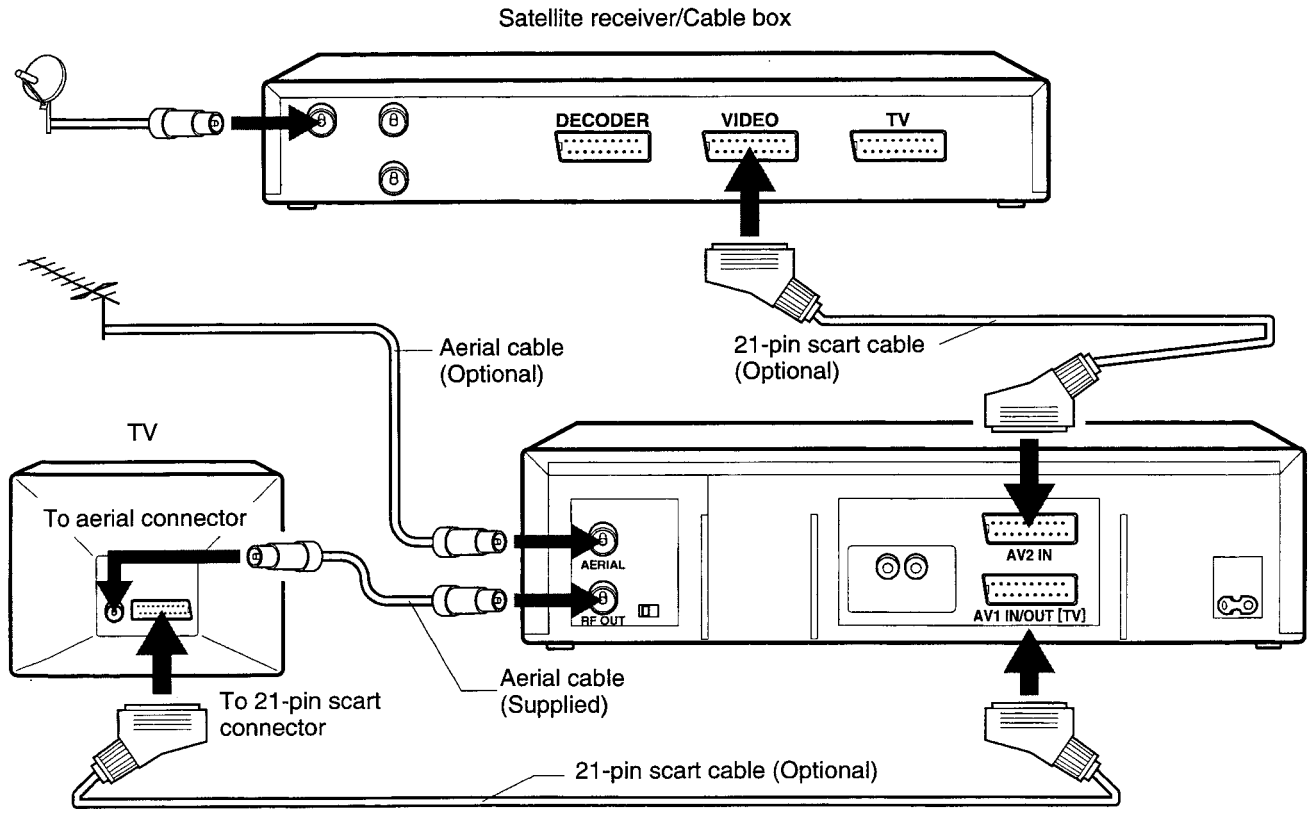
To connect to the TV with a 21-pin scart connector

This connection improves the picture and sound quality.
Connect the VCR and the TV with an optional 21-pin scart cable.
When you watch VCR pictures, set the TV to the video input mode.



To connect a satellite receiver or cable box with a 21-pin scart connector

Connect the VCR and the satellite receiver or cable box with an optional 21-pin scart cable.
Set CATV/SAT to AV2 in the SYSTEM menu (see page 33) after you tune your TV to the VCR (page 7).

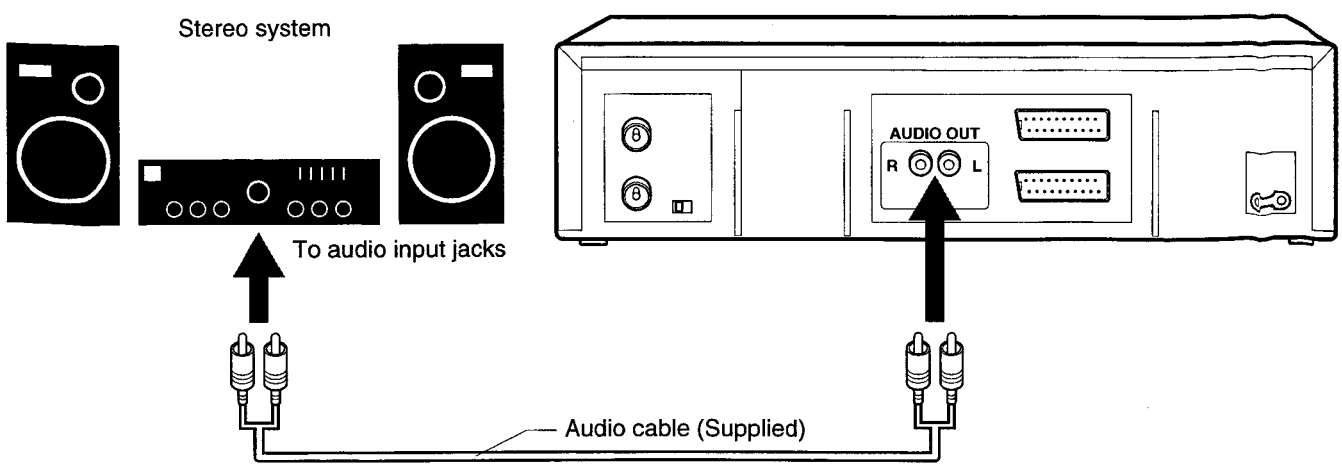


Note

If your satellite receiver or cable box has more than two scart connectors, use the VIDEO output to connect to the VCR and not the VCR output. Otherwise you may not receive a proper picture.

To connect to a stereo system

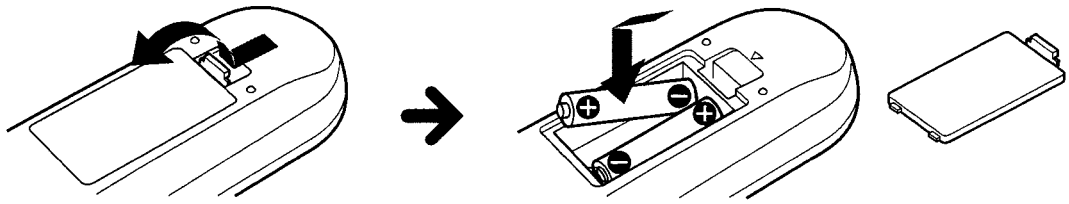
This connection improves the sound quality.
Connect AUDIO OUT on the VCR to the audio input jacks on the stereo system with the supplied audio cable.



Preparing the remote control

Inserting the batteries

Insert the two supplied R6 (size AA) batteries.
Be sure to match ⊕ and ⊖ on the batteries to the diagram inside the battery holder.

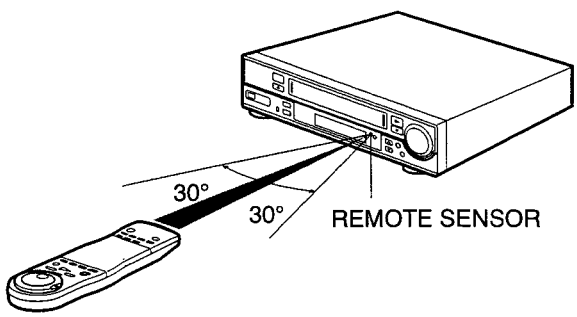


Notes

- Do not mix a new battery with an old one.
- Do not mix different kinds of batteries.
- Remove the batteries when they have no more power, or when you do not use the remote control for a long period of time.

Using the remote control

Point the remote control toward REMOTE SENSOR.

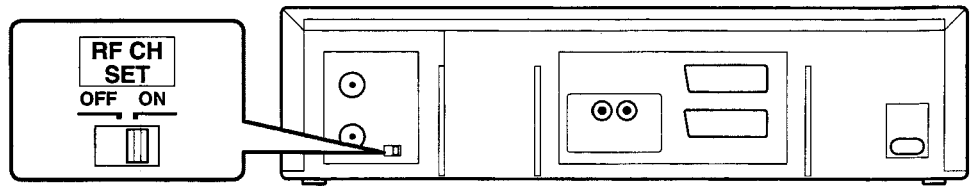


Notes

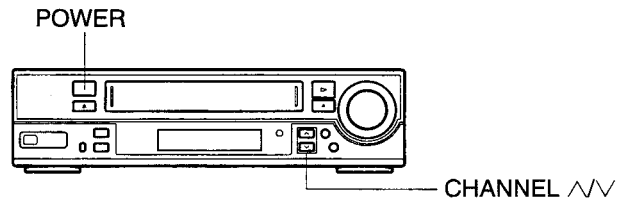
- The remote control may not operate when there is any obstruction between the remote control and REMOTE SENSOR.
- Strong ambient light sources such as a fluorescent lamp or direct sunlight may cause unreliable operation.
- Using a TV with the same type of infrared remote control facing the same direction may cause incorrect operation.
- The maximum distance for effective control between the remote control and REMOTE SENSOR is 7 metres.
- Although you can use the remote control within an angle of up to 30 degrees in any direction from directly in front of REMOTE SENSOR, we recommend a narrower angle for stable operation.

Tuning your TV to the VCR

If you have connected the VCR to the TV with a 21-pin scart cable, this procedure is not necessary.



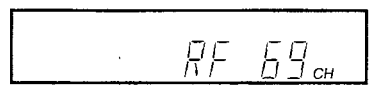
1 **Press POWER to turn on the VCR.**



2 **Set RF CH SET on the rear panel to ON.**

3 **Press CHANNEL Λ/V repeatedly until the TV channel you want to use for VCR playback appears in the display window.**

You can select a channel between 21 and 69.



4 **Tune the TV so that the aiwa blue screen appears on the TV screen.**

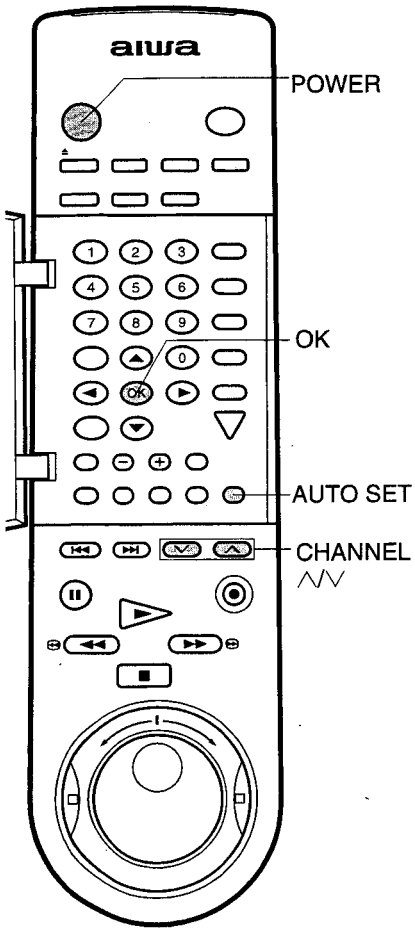
Refer to the TV operating instructions for tuning.

Now the selected channel is set to the channel for VCR playback. Whenever you want to play back a tape, set the TV to this channel.

If there is still interference on the screen, connect the VCR to the TV with a 21 pin cable. In this case, press CHANNEL Λ/V repeatedly until "RF – –" appears in the display window instead of step 3.

5 **Set RF CH SET to OFF.**

Setting up the VCR — Auto Set-Up



This convenient Auto Set-Up function can preset the clock and channels for the VCR at the same time by pressing a single button.

Before starting

- **If the VCR is connected to a cable TV or satellite receiver with the aerial cable, make sure to turn them on and set them to SKY NEWS.**

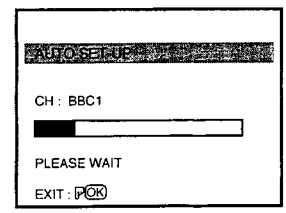
1 Press POWER to turn on the VCR.

2 Turn on the TV and set it for VCR reception.

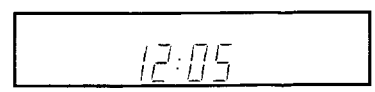
- When the VCR and the TV are connected with a 21-pin scart cable, set the TV to the video input mode.
- When they are connected with only the aerial cable, set the TV to the VCR channel.

3 Press and hold AUTO SET on the remote control for a few seconds.

"AUTO SET" will appear in the display window, and a scan bar will appear on the TV screen.



In about 4 minutes, the current time will appear in the display window after the VCR has finished setting the date, time, and channels.



4 Press CHANNEL Λ/V to check whether the correct TV stations are assigned to the right channel numbers in the following way:

Channel number	TV station
1	BBC1
2	BBC2
3	ITV
4	CH4
5	CH5
6	Cable TV/Satellite (Set SKY NEWS if the cable TV or satellite receiver is connected with the aerial cable)

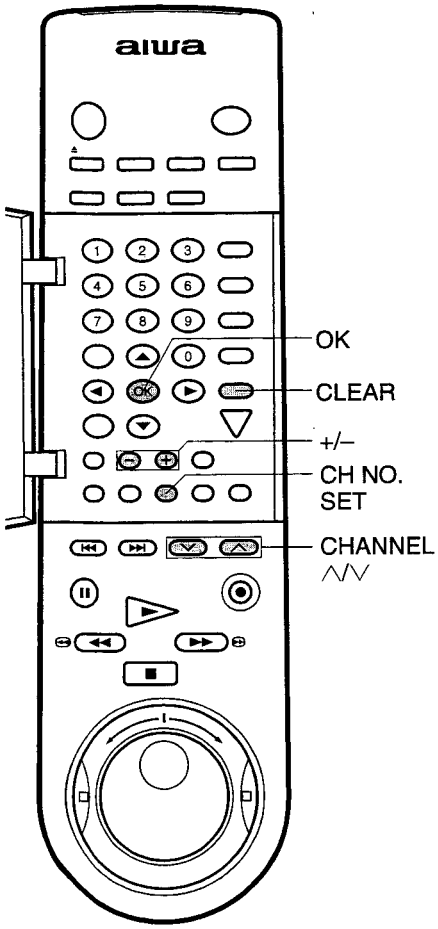
(The correct channel assignment is necessary for timer recording with VIDEO Plus+.)

Tips

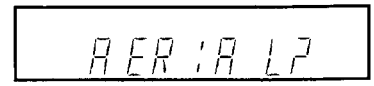
- Even if the power supply is interrupted, the VCR will automatically receive the preset channels and set the clock when the power is restored once you have completed Auto Set-Up. This function does not operate if the TV station is not broadcasting when the power is restored.
- The VCR will automatically correct the clock four times a day (three, seven, twelve, and eighteen hours) once you have completed Auto Set-Up.
- The VCR will automatically adjust the clock for Daylight Saving once you completed Auto Set-Up.

Notes

- If the VCR is not connected to a cable TV or satellite receiver with the aerial cable, no TV station will be assigned to CH6.
- Once you conduct Auto Set-Up, the previous settings will be cancelled.



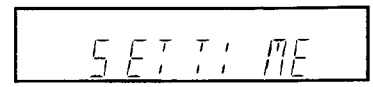
If "AERIAL?" appears in the display window after Auto Set-Up



Check the aerial connections and repeat the above procedure from step 3. If you still cannot receive the channels, set the TV channels manually. See page 31.

(Presetting the TV channels is necessary for recording TV programmes.)

If "SET TIME" appears in the display window after Auto Set-Up



Set the clock manually. See page 30.

(Setting the clock correctly is necessary for timer recording.)

If the assignment of the TV stations is not correct

Weak broadcast signals may have been preset to 7CH or higher. Reassign the channel number manually.

1 **Press CHANNEL Λ/V to select the TV station you want to reassign.**

2 **Press CH NO. SET.**

The CH NO. SET menu appears.

3 **Press +/– to select the correct channel number.**

If you assign a channel number which has already been assigned to another TV station, the channel numbers for those two stations will be exchanged.

4 **Press OK.**

To erase a channel

1 **Press CHANNEL Λ/V to select the channel number you erase.**

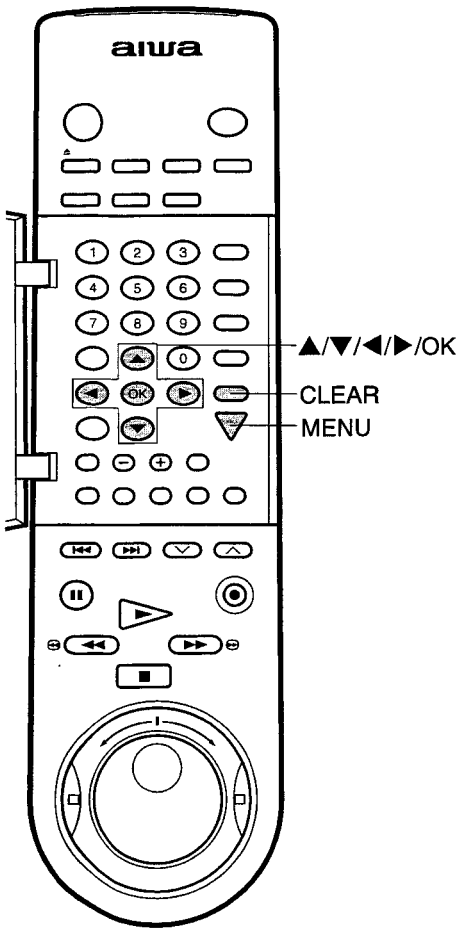
2 **Press CH NO. SET.**

The CH NO. SET menu appears.

3 **Press CLEAR to erase.**

4 **Press OK.**

Setting the Security Protect



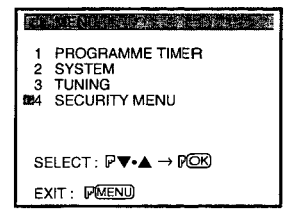
This Security Protect function limits the number of users. To set the Security Protect function, register your name, your post code, and the PIN code into this VCR, then set the Security Protect to lock the VCR.

Before starting

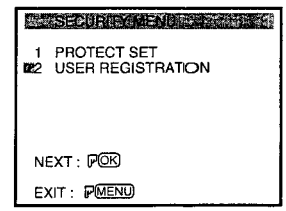
- **Turn on the VCR and the TV and set the TV for VCR reception.**
  - **When the VCR and the TV are connected with a 21-pin scart cable, set the TV to the video input mode.**
  - **When they are connected with only the aerial cable, set the TV to the VCR channel.**

Registering your name

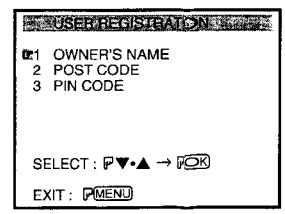
1 **Press MENU, and press ▲/▼ to move the cursor (☞) to SECURITY MENU, then press OK.**



2 **Press ▲/▼ to move the cursor (☞) to USER REGISTRATION, then press OK.**

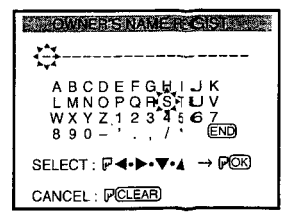


3 **Press ▲/▼ to move the cursor (☞) to OWNER'S NAME, then press OK.**



4 **Press ▲/▼/◀/▶ to select the desired letter, then press OK.**

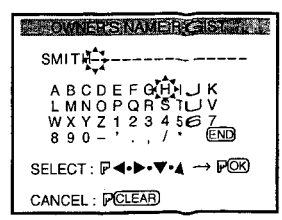
If you make a mistake, press CLEAR.



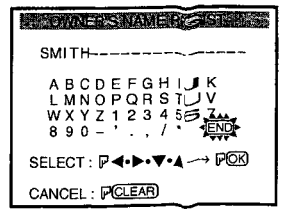
5 **Repeat step 4 to enter your name.**

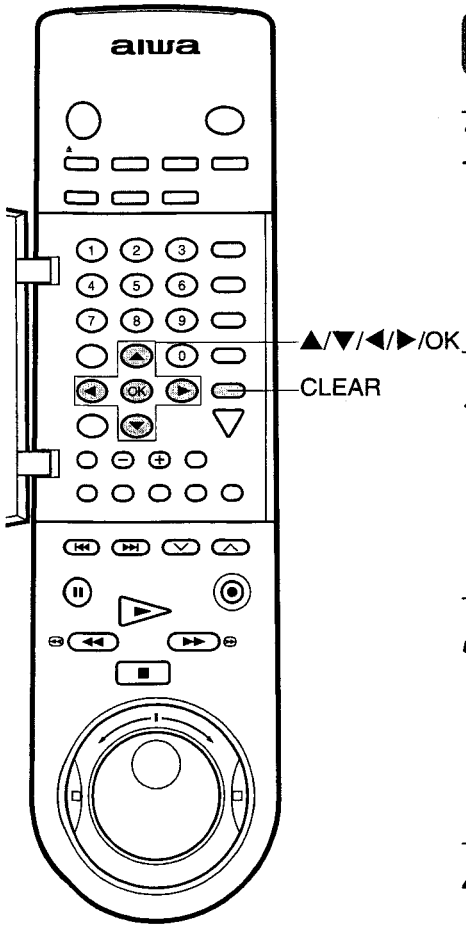
You can enter up to 20 letters.

The entered name may need to certify the owner. Make sure that your name is entered correctly.



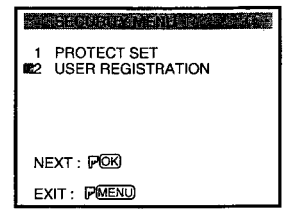
6 **Press ▲/▼/◀/▶ to select END, then press OK to return to the SECURITY MENU.**



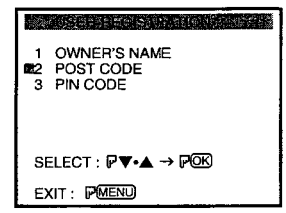


Registering your post code

1 **In the SECURITY MENU, press ▲/▼ to move the cursor (☞) to USER REGISTRATION, then press OK.**

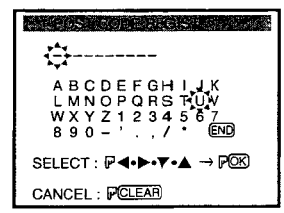


2 **Press ▲/▼ to move the cursor (☞) to POST CODE, then press OK.**



3 **Press ▲/▼/◀/▶ to select the desired letter, then press OK.**

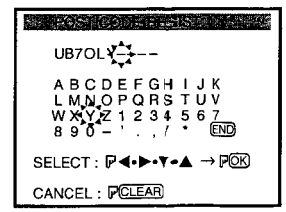
If you make a mistake, press CLEAR.



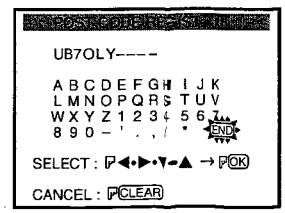
4 **Repeat step 3 to enter your post code.**

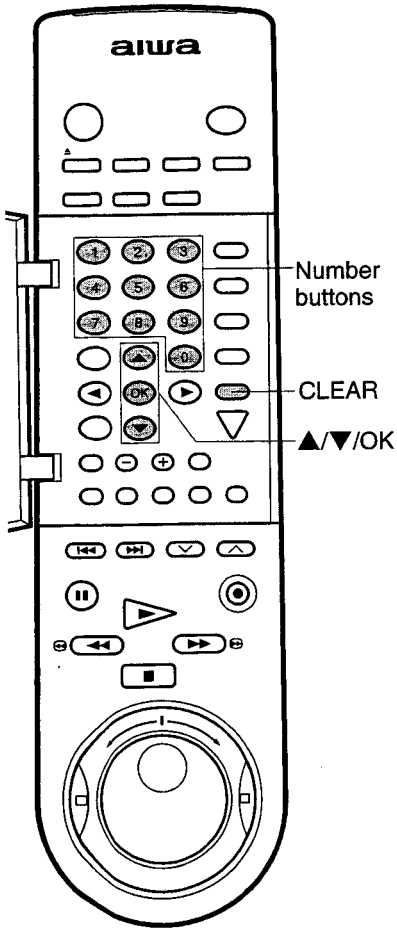
You can enter up to 10 letters.

The entered post code may need to certify the owner. Make sure that the post code is entered correctly.



5 **Press ▲/▼/◀/▶ to select END, then press OK to return to the SECURITY MENU.**



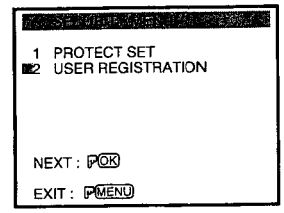


[redacted]

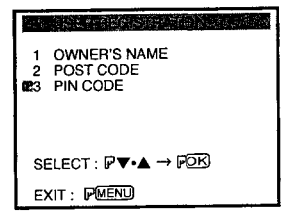
Important Note

You cannot operate the VCR if you forget the pin code. We recommend you write down the PIN code number and keep it in a safe place in case you forget it.

1 **In the SECURITY MENU press ▲/▼ to move the cursor (☞) to USER REGISTRATION, then press OK.**

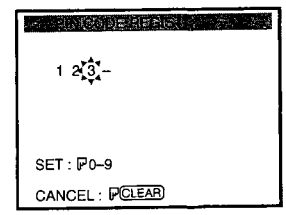


2 **Press ▲/▼ to move the cursor (☞) to PIN CODE, then press OK.**

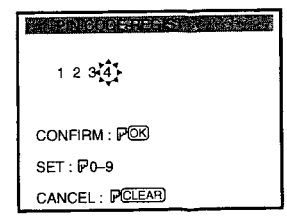


3 **Enter the PIN code (4 digits) using the number buttons.**

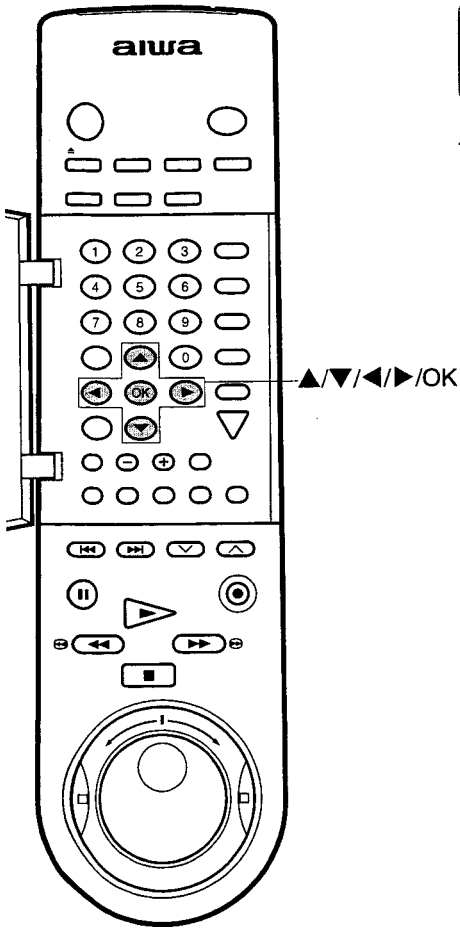
If you make a mistake, press CLEAR.



When you enter the fourth digits, the display shown on the right appears.



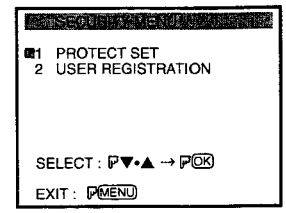
4 **Press OK to return to the SECURITY MENU.**



Setting the Security Protect to lock the VCR

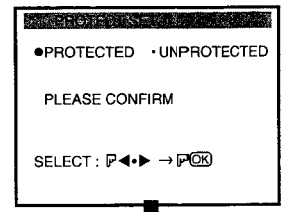
1 **In the SECURITY MENU, press ▲/▼ to move the cursor (☞) to PROTECT SET, then press OK.**

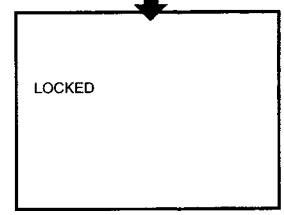
If the PIN code is not registered, you cannot select PROTECT SET.



2 **Press ◀/▶ to select PROTECTED, then press OK.**

After 3 seconds, the display returns to the normal display.





3 **Press POWER to turn off the VCR and disconnect the mains lead from the mains.**

The VCR will be locked.

When you reconnect the mains lead to the mains and press POWER to turn on the VCR after VCR is locked, the VCR does not work until you enter the PIN code.

Notes

- The "PLEASE ENTER PIN CODE" display does not appear in the following cases:
  - When you turn on and off by pressing POWER.
  - When you reconnect the mains lead to the mains in 2 minutes after you disconnect it.
- When the VCR is locked, only POWER, STOP, and EJECT buttons work.

Important Note

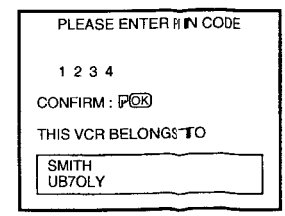
In case you cannot remember your PIN code number, please contact Customer help-line 0990-902902.

To use the VCR after the VCR is locked

1 **After setting the security protect function, and you reconnect the mains lead to the mains, the "PLEASE ENTER PIN CODE" display appears when you press POWER to turn on the VCR.**

2 **Enter the PIN code you set using the Number buttons, then press OK.**

- If you enter the correct PIN code, "PIN CODE OK" will be displayed on the TV screen, and you can operate the VCR.



If you enter the PIN code incorrectly

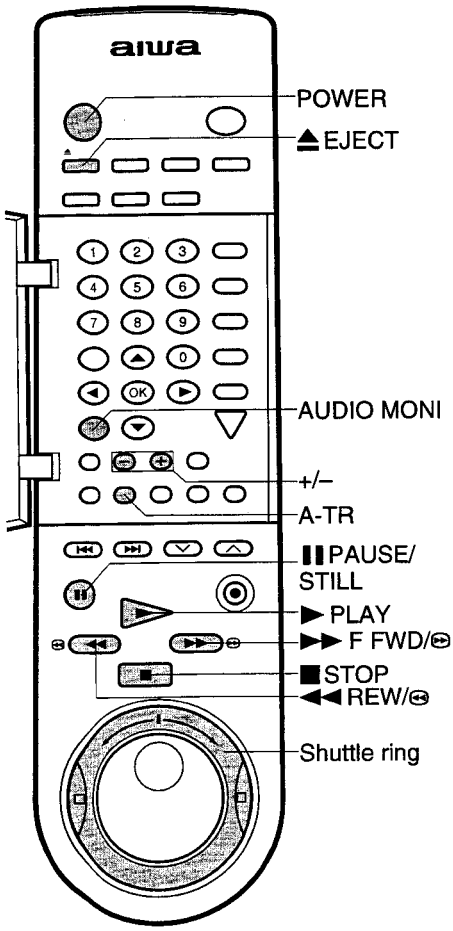
If you enter the PIN code incorrectly, "PIN CODE ERROR" will appear on the TV screen.

If you enter the pin code incorrectly more than 3 times, the security protect function will activate, and you will not be able to enter the pin code. The VCR will not be unlocked after it is locked even though you reconnect to the mains.

To enter the PIN code again

Reconnect the mains lead to the mains more than 5 minutes later from you disconnect it.

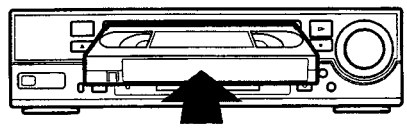
Playing back a tape



Before starting

- **Turn on the VCR and the TV and set the TV for VCR reception.**
  - **When the VCR and the TV are connected with a 21-pin scart cable, set the TV to the video input mode.**
  - **When they are connected with only the aerial cable, set the TV to the VCR channel.**

1 Insert a cassette.



The power turns on automatically.

Playback starts immediately if the erasure prevention tab has been removed from the cassette.

2 Press ▶ PLAY to start playback.

To stop playback

Press ■ STOP.

Tips

- When the tape reaches the end during playback, fast-forward, or forward search, the VCR automatically rewinds the tape to the beginning, ejects the cassette, and turns the power off. If Counter Memory (page 19) is set, the tape stops rewinding when the tape counter returns to "0:00:00." In this case, the cassette remains in the VCR and the power is not turned off.
- The VCR selects the tape speed, SP, LP, or EP (NTSC only) automatically.

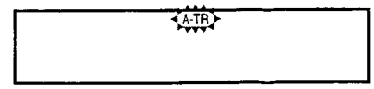
Note

"A-TR" does not appear while playing unrecorded portions of tape.

If you cannot get a clear playback picture

Although the VCR adjusts the tracking automatically, you may need to adjust the tracking manually if the tape quality is too poor.

While the VCR is adjusting the tracking automatically, "A-TR" (Automatic Tracking) flashes in the display window. It lights steadily after the adjustment is complete.
If "A-TR" keeps flashing more than 10 seconds, try manual tracking.



To adjust the tracking manually

During playback, press +/– repeatedly until you get the best possible picture. (Automatic Tracking is cancelled and "A-TR" goes off.)

To return to automatic tracking

Press A-TR.

Tips

- If you press ⏏ EJECT while the power is off, the VCR automatically turns the power on, ejects the cassette, and turns the power off.
- You can adjust unstable pictures during pause by pressing +/– repeatedly.

Notes

- If a still picture lasts for more than 5 minutes, the VCR will automatically enter stop mode to protect the tape.
- Noise lines may appear depending on the quality of the tape during pause. When you play back the tape recorded in the NTSC colour system at EP speed, you can move the noise lines by pressing ❚❚ PAUSE/STILL repeatedly.
- With tapes recorded at PAL LP or NTSC SP/EP speed, noise lines may appear, and the colour may fade during forward and reverse searches. You can move the noise lines by pressing +/– repeatedly.
- Forward and reverse searches may not operate correctly on some TVs.
- The sound will be muted during pause and forward and reverse searches.

Tip

If Counter Memory (page 19) is activated, the VCR enters the selected operation mode after the tape counter reaches "0:00:00."

Additional functions

To	Press	To return to the original mode
Pause play	❚❚ PAUSE/STILL during playback	Press ▶ PLAY.
Fast-forward the tape	▶▶ F FWD or turn the shuttle ring to the rightmost position during stop	—
Rewind the tape	◀◀ REW or turn the shuttle ring to the leftmost position during stop	—
Eject the cassette	⏏ EJECT	—
Search forward at high speed	▶▶ F FWD momentarily during playback	Press ▶ PLAY.
Search forward at a lower speed	And hold down ▶▶ F FWD	Release the button.
Search reverse at high speed	◀◀ REW momentarily during playback	Press ▶ PLAY.
Search reverse at a lower speed	And hold down ◀◀ REW	Release the button.

To play, eject, and switch off automatically after rewinding

1 **Press ◀◀ REW in stop mode.**

2 **Press ▶ PLAY, ⏏ EJECT, or POWER within two seconds.**
The VCR executes the command according to the pressed button after rewinding the tape to the beginning.

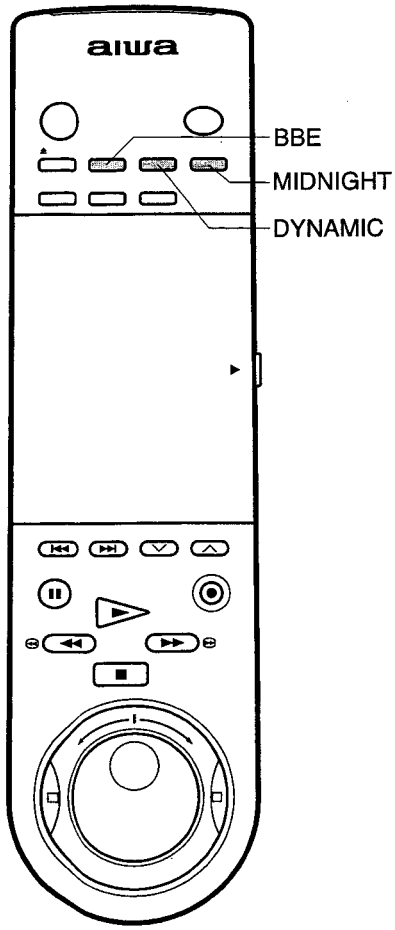
Selecting stereo or bilingual sound

Press AUDIO MONI (Audio Monitor) to select the sound you want.
Each press changes the indicator in the display window as follows:

Indicator in the display window	To listen to	
	Stereo programme	Bilingual programme
L R	Stereo	Mixed (main and sub) sounds
L	Left channel	Main sound
R	Right channel	Sub sound
No indicator	Standard sound (mono)	Standard sound (usually the main sound)

Notes

- When you play a tape recorded in mono, the sound is always played back in mono regardless of the Audio Monitor setting.
- When you set NICAM to OFF in the SYSTEM menu (see page 33), the sound is always played back in standard (mono) regardless of the Audio Monitor setting.
- When you play back the tape recorded in the NTSC colour system at EP speed, only the sound of normal audio track is played back even though it is recorded in Hi-Fi mode.



Enjoying a special sound effect – theatre mode

The VCR provides 3 modes as the sound enhancer: BBE, DYNAMIC MODE, and MIDNIGHT MODE.

BBE system enhances the clarity of high-frequency sound.
DYNAMIC MODE produces theatre-like dynamic sounds emphasizing the low-pitched sound.
MIDNIGHT MODE is suitable for watching with the volume turned down late at night, as it averages the soft and loud sounds.

To operate with the remote control

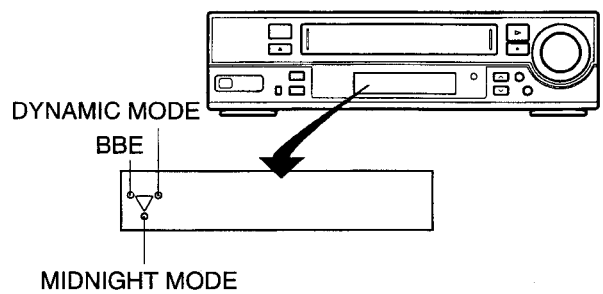
Press BBE, DYNAMIC, or MIDNIGHT to select the mode you want. To return to the normal mode, press the same button again.

To operate on the VCR

Press THEATRE. Each time you press THEATRE the mode and indication on the TV screen changes as follows:

BBE → DYNAMIC MODE → MIDNIGHT MODE → NORMAL

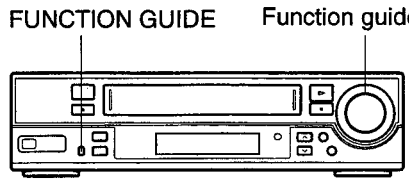
When you select the Theatre mode, the indicator of the selected mode on the VCR lights. There is no indication on the VCR when you select the normal mode.



Note

When you turn off the VCR, Theatre mode is set to NORMAL.

Illumination of the function guide



Note

When you turn off the VCR, the jog dial will demonstrate the full range of illumination displays. Press FUNCTION GUIDE while the VCR is off to turn this feature off.

The illumination of the function guide indicator around the jog dial shows the current tape operation. It cycles clockwise when the tape is moving forward, and cycles
anti-clockwise when the tape is moving in reverse. The illumination cycling speed varies according to the speed of the tape movement.
The illumination turns red while recording.
It flashes in pause and frame-by-frame playback, and fully lights up in stop mode with the cassette inserted.

To cancel the illumination

Press FUNCTION GUIDE on the VCR.

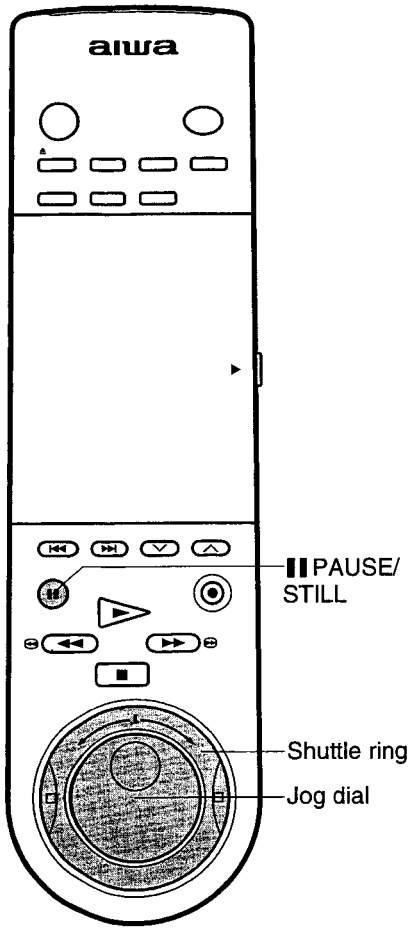
Playing back the NTSC tape

Notes

- The playback picture shrinks vertically to some degree. This does not indicate a malfunction in TV or VCR.
- The playback picture may scroll vertically on the screen. If your TV has a V-HOLD control, adjust for a stable picture. If not, you cannot stop scrolling.
- Horizontal noise bars may appear on the screen during special effect playback (visual search, still picture), along with discolouring.
- Although NTSC tapes can be played back on a PAL TV, these tapes cannot be dubbed by a PAL system VCR.

Tapes recorded in the NTSC colour system can be played back on this unit. If you playback the NTSC tape on this unit, you can watch the picture on a PAL colour system TV.

Various search functions

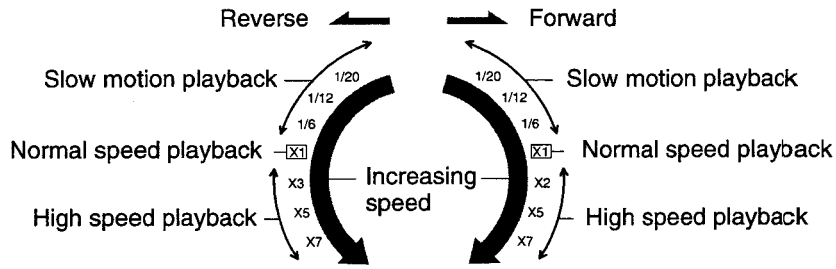


Notes

- If you continue slow motion playback for more than five minutes, the VCR will automatically enter stop mode to protect the tape.
- The sound will be muted during various speed playback.

[illegible] speeds using the shuttle ring

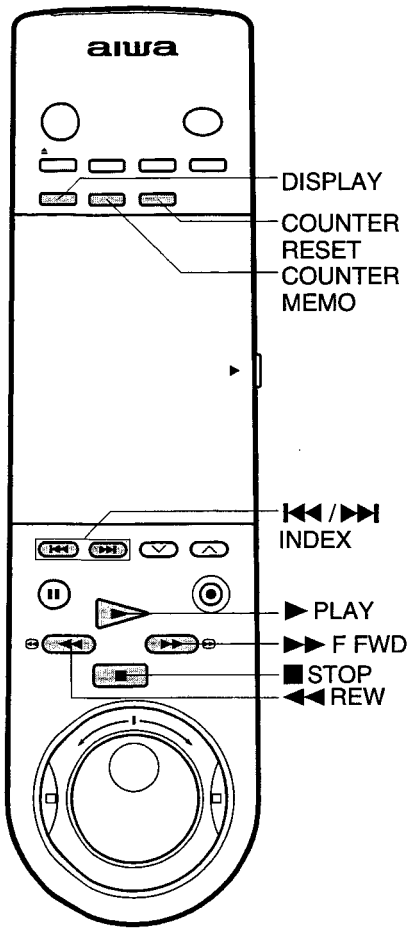
Turn the shuttle ring right for various speeds playback during playback or pause. Turn the shuttle ring left for reverse play.
The playback speed varies according to the extent you turn the shuttle ring as follows:



Playing frame-by-frame using the jog dial

1 **Press II PAUSE/STILL to pause the picture.**

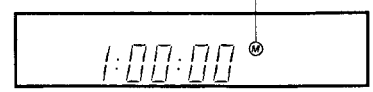
2 **Spin the jog dial right (or left for reverse playback) with your finger in the hollow part of the jog dial.**
The playback speed varies according to the speed you spin the jog dial.



Rewinding or fast-forwarding to a specific point – Counter Memory

1 **Press COUNTER MEMO.**

"M" appears



2 **Press COUNTER RESET at the point you want to locate later.**

The tape counter in the display window resets to "0:00:00."

3 **After playback, press ■ STOP, then ◀◀ REW or ▶▶ F FWD.**

The tape automatically stops when the tape counter returns to about "0:00:00."

To cancel Counter Memory

Press COUNTER MEMO again.

Tip

You can also see the tape counter on the screen display. Press DISPLAY repeatedly until the tape counter appears. See page 32.

Note

If you use One-Touch Playback (page 21) or Index Search (this page), Counter Memory will be cancelled.

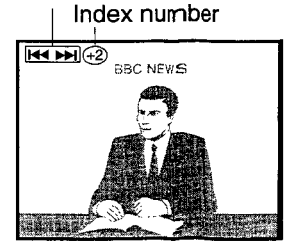
Searching with the index function – Index Search

The VCR automatically marks an index signal on the tape each time recording starts. You can use these signals to find the beginning of any recording.

Press ⏭ INDEX (for succeeding programmes) or ⏮ INDEX (for preceding programmes) repeatedly until the index number (up to nine) you want appears on the TV screen.

Either of them appears

Index number



The VCR starts searching.

Playback starts automatically from the beginning of the specified recording.

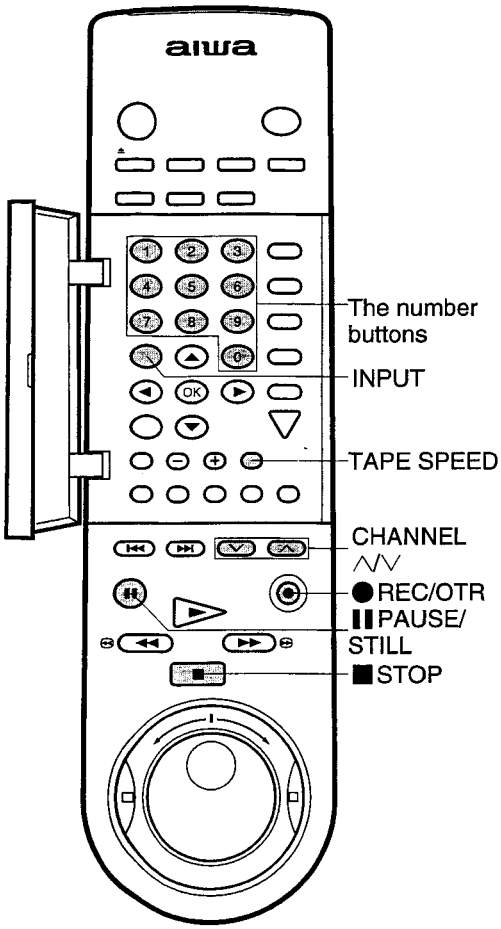
Tip

You can also use the display window to check the index number you specified. "INDEX" and the index number will appear in the display window when you press ⏭/⏮ INDEX.

Notes

- Index signals should be at least one minute apart in SP mode and two minutes apart in LP or EP (NTSC only) mode. Otherwise, the VCR cannot detect them properly.
- Index signals may not be detected on damaged or worn out tapes.
- Index signals may not be detected at the beginning of recordings where the tape speed is different from the previous programme.
- The index search indicator and count number do not appear if the display mode is off. See page 32.

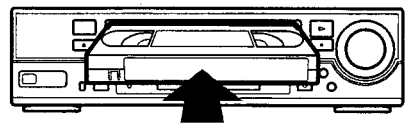
Recording a TV programme



Before starting

- **Turn on the VCR and the TV and set the TV for VCR reception.**
  - **When the VCR and the TV are connected with a 21-pin scart cable, set the TV to the video input mode.**
  - **When they are connected with only the aerial cable, set the TV to the VCR channel.**

1 Insert a cassette with its erasure prevention tab in place.



The power turns on automatically.

2 Press TAPE SPEED to select the tape speed, SP or LP.

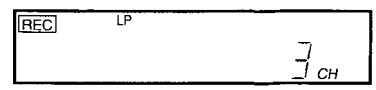
"LP" appears when LP is selected. No indicator appears when SP is selected.

LP provides twice as much recording time as SP, although SP produces better picture and audio sounds.

3 Press CHANNEL Λ/V repeatedly until the channel you want to record appears.

You can also use the number buttons to enter the channel number.

4 Press ● REC/OTR to start recording.



To stop recording

Press ■ STOP.

To pause recording

Press ❚❚ PAUSE/STILL. To resume recording, press ● REC/OTR.

Tip

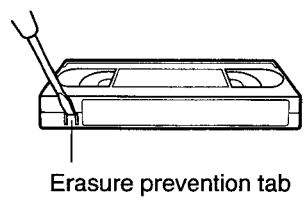
If you want to record the programme through the line input, press CHANNEL Λ/V continuously or INPUT to display "AV1" (from AV1 IN/OUT [TV] connector at the back), "AV2" (from AV2 IN connector at the back), or "AV3" (from the AUDIO/VIDEO IN jacks in front) on the TV screen in step 3.

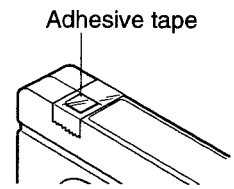
Notes

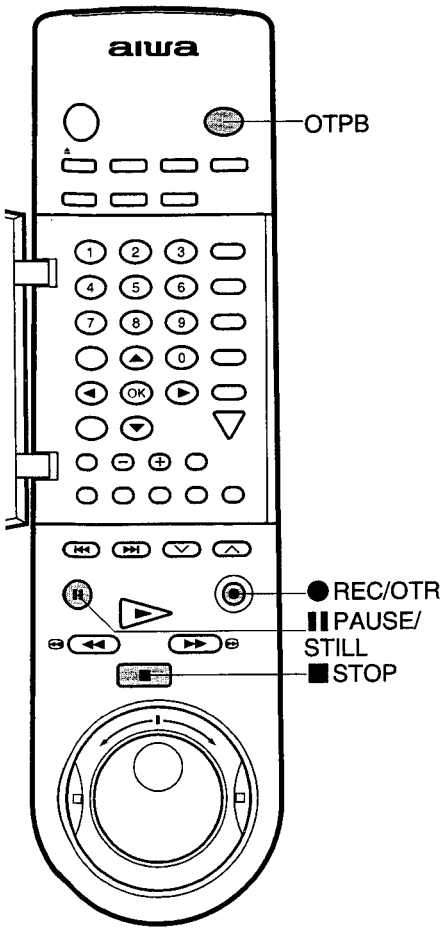
- If you try to record on a cassette without its erasure prevention tab, the VCR will eject the cassette.
- If recording pause lasts for more than 5 minutes, the VCR will automatically enter stop mode to protect the tape.

To prevent an accidental recording

Break off the erasure prevention tab on the back edge of the cassette. To record over the tape again, cover the gap with adhesive tape.







To start recording during playback

1 **Press ❚❚ PAUSE/STILL during playback.**

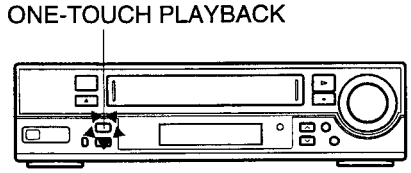
2 **Press ● REC/OTR twice.**

Playing back the portion you just recorded—One-Touch Playback

Using One-Touch Playback after VIDEO Plus+ (page 24) or other timer recordings (see page 23 and 26) is convenient. You can make timer recordings and play back only the portion you just recorded with the timer by pressing a single button later.

1 **Press ■ STOP to stop recording (when recording without timer).**

ONE-TOUCH PLAYBACK on the VCR lights.



If another operation button is pressed after you stop recording, One-Touch Playback will be cancelled.

2 **Press ONE-TOUCH PLAYBACK on the VCR or OTPB on the remote control.**

The tape rewinds to the start of the recorded portion and begins playback.

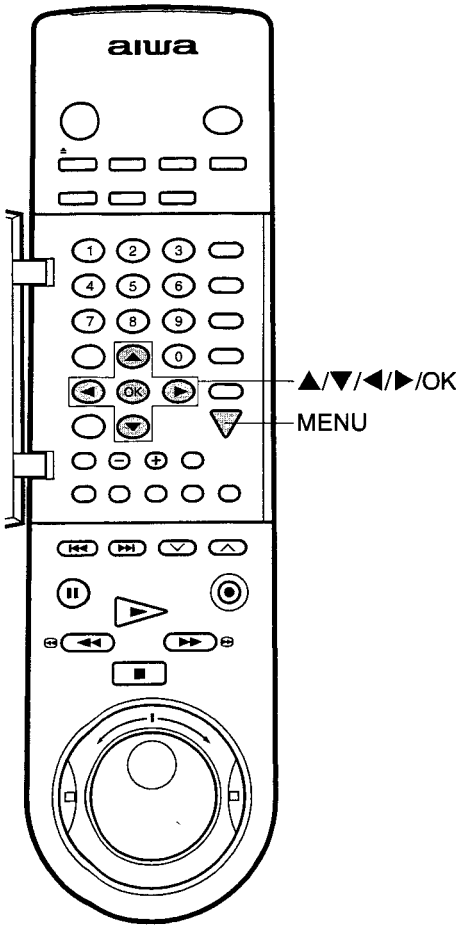
When you set the timer for more than two timer programmes

The VCR starts playing back from the earliest one when you use One-Touch Playback.

To find the beginning of the second (or later) programme, use Index Search (page 19).

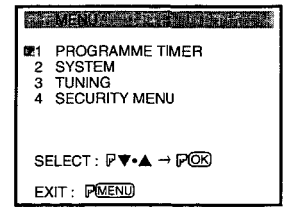
Note

One-Touch Playback does not work for recordings of less than one minute in SP mode and two minutes in LP mode.

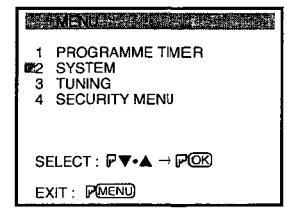


Recording NICAM stereo and bilingual programmes

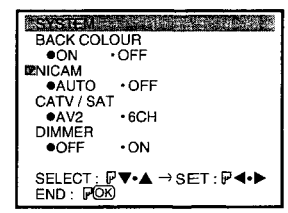
1 **Press MENU.**



2 **Press ▲/▼ to move the cursor (☞) to SYSTEM, then press OK.**



3 **Press ▲/▼ to move the cursor (☞) to NICAM, then press ◀/▶ to select AUTO.**



4 **Press OK to store the setting.**

5 **Start recording the TV programme.**

NICAM broadcasts are recorded according to the following table:

Track	Sound recorded	
	Stereo	**Bilingual**
Hi-Fi audio Left channel	Left channel	Main sound
Hi-Fi audio Right channel	Right channel	Sub sound
Normal audio (mono)	Standard (usually the mixed sound of the left and right channels)	Standard (usually the main sound)

Tip

If NICAM sound has noise or you want to record the standard sound regardless of the broadcast type, set NICAM to OFF.

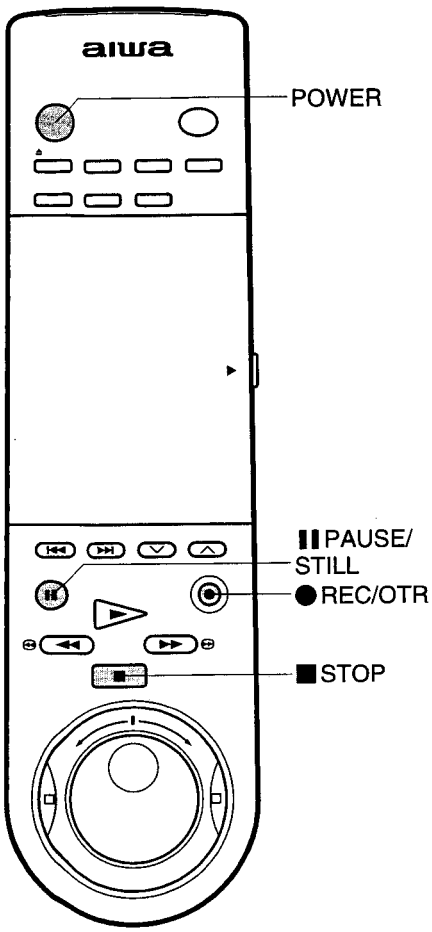
Note

When the VCR receives NICAM broadcasts, "NICAM" appears in the display window.
If the broadcast is stereo, "STEREO" appears in the display window.
If the broadcast is bilingual, "BIL" appears in the display window.

To select the sound when playing back a NICAM-recorded tape

See page 15.

Recording with One-Touch Timer



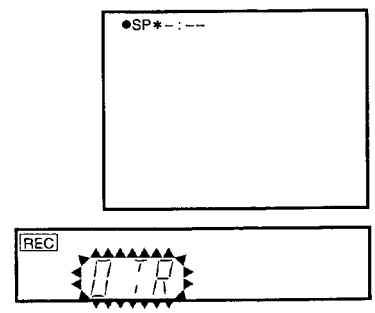
You can immediately start recording the current channel for a specified time with One-Touch Timer.

Before setting the timer

- Insert a cassette with its erasure prevention tab in place. Make sure the tape is longer than the recording time.
- Turn on the TV and set it for VCR reception.
- Select the channel to record and tape speed.

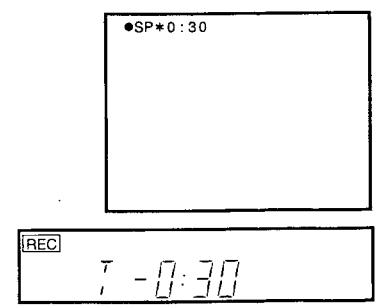
1 **Press ● REC/OTR.**
The VCR starts recording.

2 **Press ● REC/OTR again.**
"✻ – : – –" appears on the TV screen and "OTR" flashes in the display window.



3 **Within five seconds, press ● REC/OTR repeatedly to set the recording duration.**
Each press changes the recording duration on the TV screen and in the display window in the following way:

0:30 → 1:00 → 1:30 → ... → 3:30
↑OTR ← tape counter ← 4:00 ←┘



The recording time indicator counts down to "0:00."
The recording stops at "0:00" and the VCR turns off.

To stop, pause, or turn off the power while recording
Press ■ STOP, ❚❚ PAUSE/STILL, or POWER.

To extend the recording duration while recording

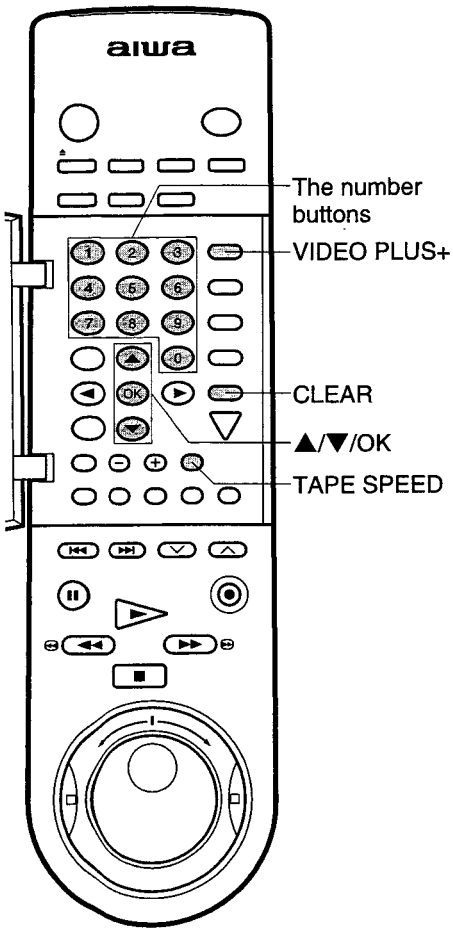
Press ● REC/OTR until the new duration you want appears in the display window.

Tip
You can use One-Touch Playback after recording.
See page 21.

Notes

- One-Touch Timer recording has priority over other timer recordings when the recordings overlap.
- When the tape counter is displayed by pressing ● REC/OTR repeatedly, One-Touch Timer recording is cancelled and regular recording resumes.

Setting the timer with VIDEO Plus+



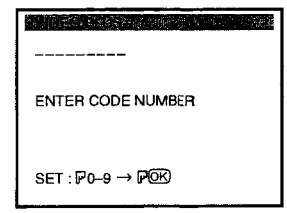
You can greatly simplify timer recordings with VIDEO Plus+. Just enter the PlusCode, a number assigned to each TV programme, and the VCR will set the timer recording automatically. You can find PlusCodes in most TV guide magazines.
You can set up to six programmes.

Before setting the timer

- Check that the VCR clock is set correctly.
- Check that the correct channel number is assigned to the right TV station (see page 8).
- Insert a cassette with its erasure prevention tab in place. Make sure the tape is longer than the recording time.
- Turn on the TV and set it for VCR reception.
- To set the timer for a satellite or cable TV channel, check that the satellite (or cable) receiver is turned on and the channel you want to record is selected.

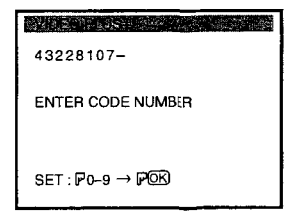
1 Press VIDEO PLUS+.

If the timer programme list is displayed and "FULL" appears at the top of the TV screen, the timer programmes are fully set. To set a new programme, select PROGRAMME TIMER in the MENU, then press ▲/▼ to move the cursor (☞) to the unnecessary programme, and press CLEAR to cancel.



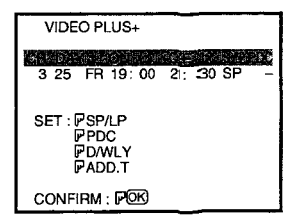
2 Enter the PlusCode of the TV programme you want to record using the number buttons.

If you make a mistake, press CLEAR, then enter the correct number.



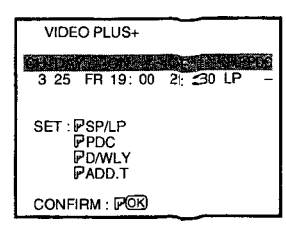
3 Press OK.

- The following timer information appears on the TV screen:
  the channel number, date, start and finish times, tape speed, and PDC information (from the left).
- If you want to change the settings here, see "Changing the settings" on the next page.



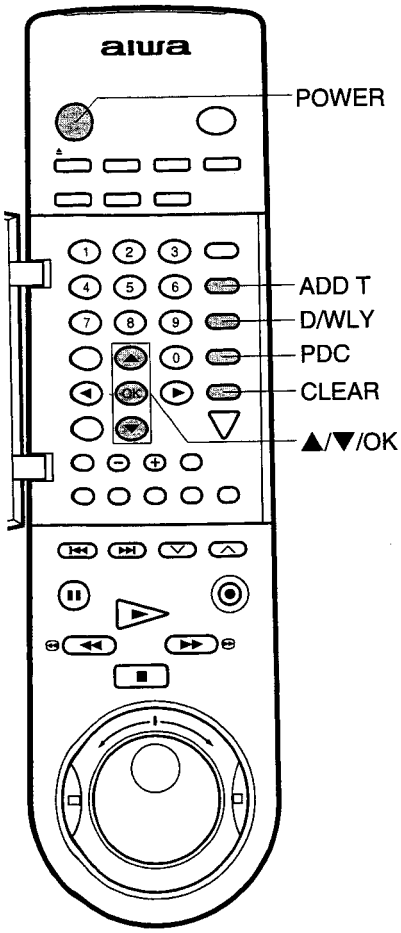
4 Press TAPE SPEED to select SP or LP

LP provides twice as much recording time as SP, although SP produces better picture and audio sounds.



Tips

- If you want to exit while setting a programme, press VIDEO PLUS+ again.
- Even if the power supply is interrupted, the preset programmes remains in the VCR memory. The VCR will select and restore only the active programmes in the memory automatically.
- VIDEO Plus+ will add a safety margin to the set recording time. The VCR will begin recording two minutes before, and continue recording for three minutes after the set recording time except when PDC is on or another timer recording overlaps the safety margin.
- The cable TV or satellite programmes will be recorded through channel 6 when the VCR is connected to the cable TV or satellite receiver with the aerial cable. They will be recorded through AV2 IN when connected with 21-pin scart cable.

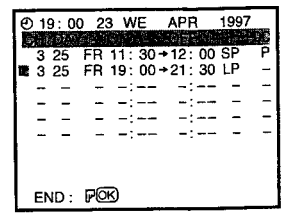


Note

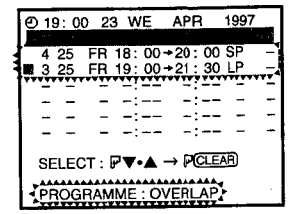
When the VCR receives PDC broadcasts, "PDC" appears in the display window.

5 Check that the timer settings are correct, then press OK.

- The timer programme list sorted by the start time appears.



- If there are any overlapped programmes, the TV screen turns red and the overlapped programmes and "PROGRAMME OVERLAP" at the bottom of the screen flash.
  In this case, press ▲/▼ to move the cursor (☞) to the overlapped programme, and press CLEAR to cancel.



6 If you want to set another programme, repeat from step 1.

7 Press OK to close the display.

8 Press POWER to turn off the unit.

- ◴ appears in the display window, and the VCR stands by for recording.
- If ◴ flashes, a cassette is not inserted or the cassette's erasure prevention tab is removed.

Changing the settings

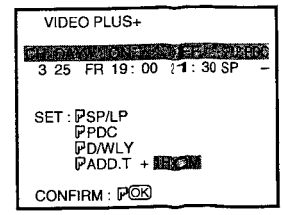
You can change any of the settings while in step 3 on the previous page.

To change the fixed date recording to daily/weekly recording

If you want to record the same programme everyday (from Monday to Friday), press D/WLY (Daily/Weekly) repeatedly until "MO-FR" appears.
To record it every week, press D/WLY repeatedly until "EW + the day of the week" appears. (e.g. "EWTH" represents Every Week Thursday.)

To extend the recording time

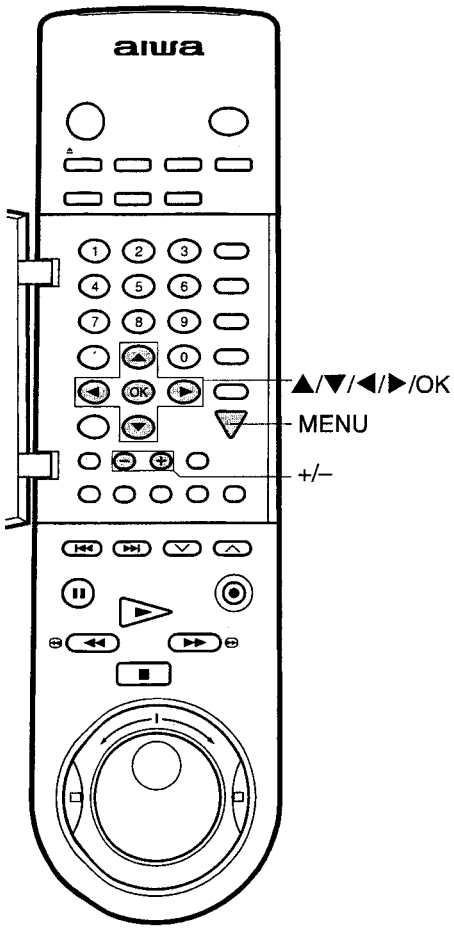
Press ADD T (Add Time) repeatedly. Each press extends the recording time in 15-minute increments to a maximum of eight hours.
To cancel the setting, press CLEAR.



To record with the PDC (Programme Delivery Control) system

The PDC system automatically adjusts the start and finish times for a timer programme if the TV programme starts early or late, or runs on longer than scheduled.
Press PDC to display "P" for recording with PDC.
The PDC system is currently broadcast by certain stations in some areas only. Do not set PDC to ON for a non-PDC channel.

Setting the timer manually

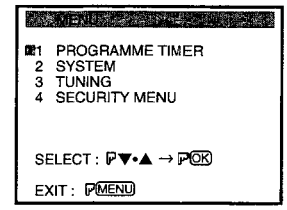


If you cannot use VIDEO Plus+, you can set the timer manually.
You can set up to six programmes within one month of the current date.

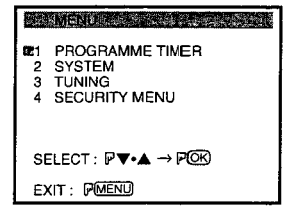
Before setting the timer

- Check that the VCR clock is set correctly.
- Insert a cassette with its erasure prevention tab in place. Make sure the tape is longer than the recording time.
- Turn on the TV and set it for VCR reception.
- To set the timer for a satellite or cable TV channel, check that the satellite (or cable) receiver is turned on and the channel you want to record is selected.

1 **Press MENU.**

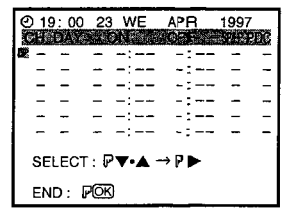


2 **Press ▲/▼ to move the cursor (☞) to PROGRAMME TIMER, then press OK.**

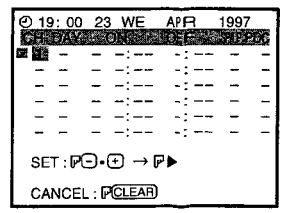


3 **Press ▶ to begin setting the timer recording programme.**

If the position indicated by the cursor (☞) is already in use, before pressing ▶, select an open position with ▲/▼, then press ▶.

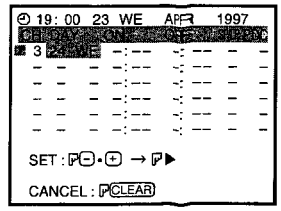


4 **Press +/– to set the channel, then press ▶.**

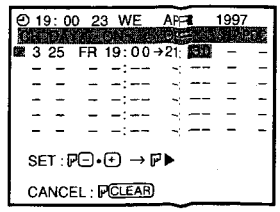


5 **Press +/– to set the date, then press ▶.**

If you want to set daily/weekly recordings, see next page.

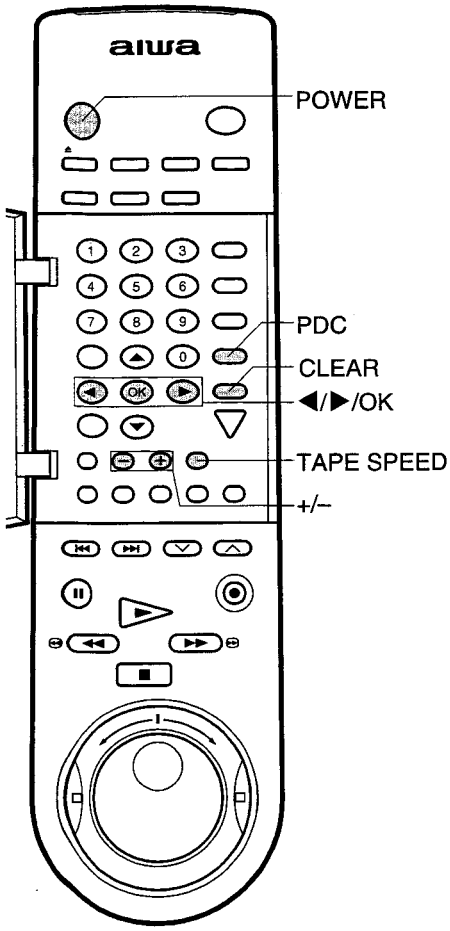


6 **Set the start time (hours and minutes), and finish (hours and minutes) in the same way as in step 5.**



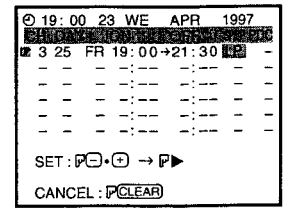
Tip

If you want to record the programme through the line input, press +/– to display "A1" (from AV1 IN/OUT [TV] connector at the back), "A2" (from AV2 IN connector at the back), or "A3" (from the AUDIO/VIDEO IN jacks in front) in step 4 instead of the channel number.



7 **Press +/– (or TAPE SPEED) to select SP or LP, then press ▶.**

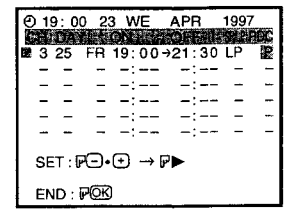
LP provides twice as much recording time as SP, although SP produces better picture and audio sounds.



8 **Press +/– (or PDC) to display "P" if you want to set the timer with the PDC function, then press ▶.**

See "To record with the PDC (Programme Delivery Control) system" on page 25.

The PDC system is currently broadcast by certain stations in some areas only. Do not set PDC to ON for a non-PDC channel.



9 **If you want to set another programme, repeat steps 3 through 8.**

10 **Press OK to close the menu.**

11 **Press POWER to turn off the VCR.**

- ⏲ appears in the display window and the VCR stands by for recording.
- If ⏲ flashes, a cassette is not inserted or the cassette's erasure prevention is removed.

Tip

Even if the power supply is interrupted, the preset programmes remain in the VCR memory. The VCR will select and restore only the active programmes in the memory automatically.

Notes

- When setting the timer with PDC, enter the start and finish times exactly as indicated in the TV programme guide, otherwise the PDC function will not work.
- You can set the timer with the PDC function only when you set the channel number to the TV channel or "A2" in step 4.

To set the daily/weekly timer

In step 5, press – (the minus button) repeatedly before pressing ▶.
The setting changes as follows:

The current day → MO-FR (Monday to Friday) ↓ EVDAY (Everyday) ↓ EWSA (Every Saturday) ↓ EWFR (Every Friday) ↓ ⋮ ↑ one month later minus one day ↑ one month later minus two days ↑ EWSU (Every Sunday) ←

After setting, press ▶.

To correct the data while setting

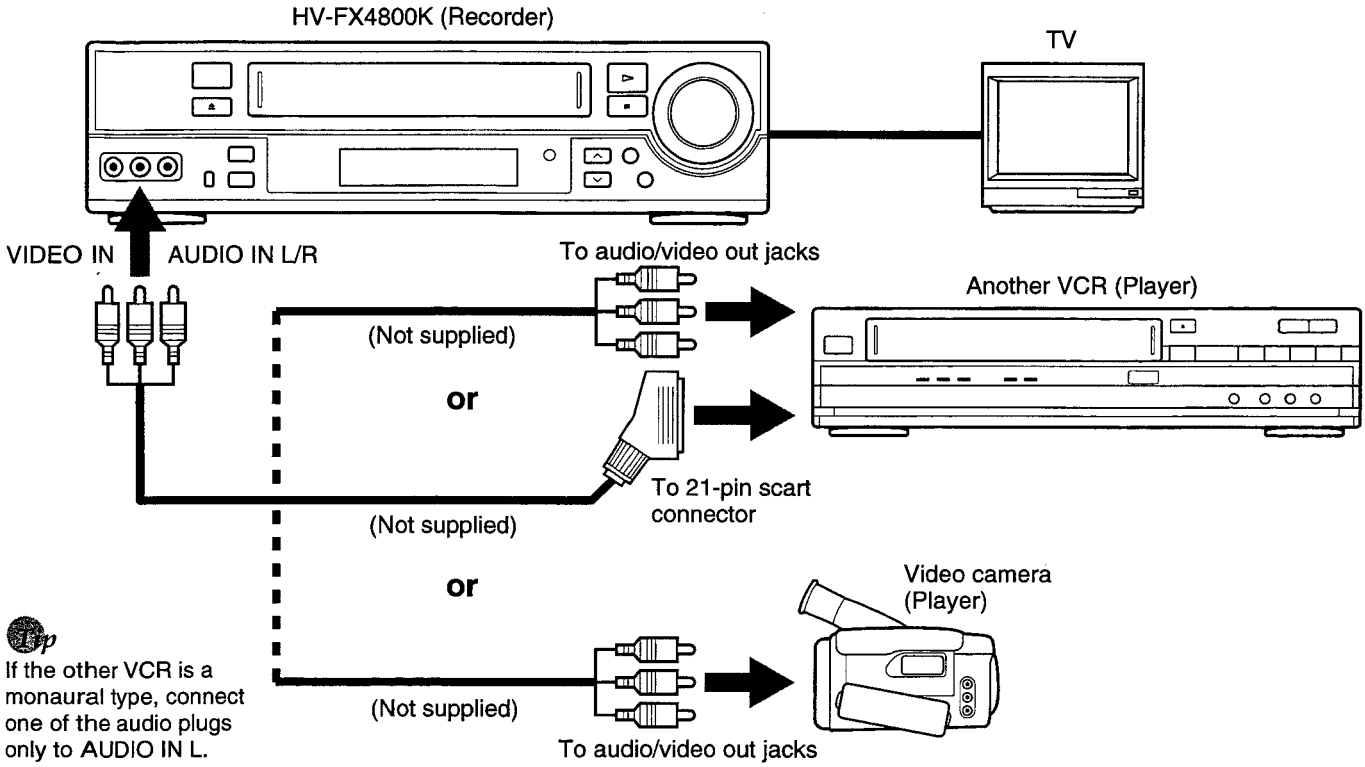
Press ◀/▶ until the item you want to correct highlights, then press +/– to set the correct data. Then press OK.

If the programme overlaps another

TV screen turns red and the overlapped programmes and "PROGRAMME OVERLAP" at the bottom of the screen flash.
In this case, press ▲/▼ to move the cursor (☞) to the overlapped programme, and press CLEAR to cancel.

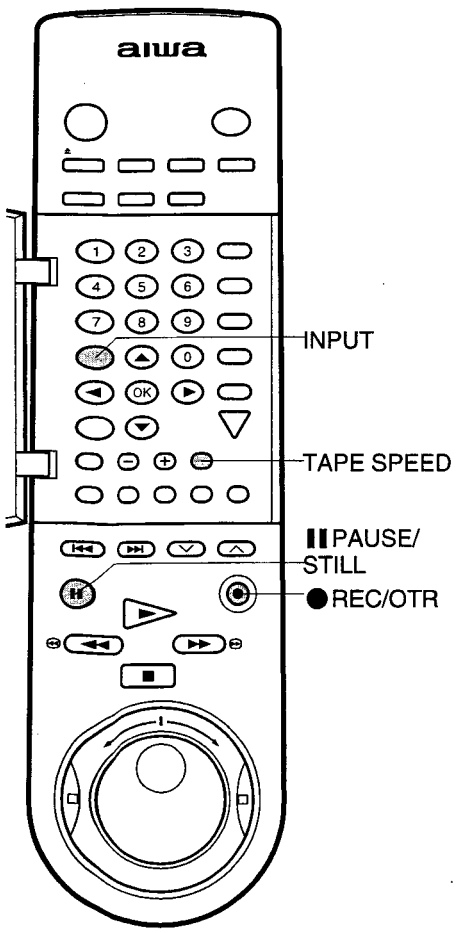
Dubbing

Connecting with another VCR



Tip

If the other VCR is a monaural type, connect one of the audio plugs only to AUDIO IN L.



Operation

Before dubbing

Turn on the TV, and set it for VCR reception.

1 **Insert a pre-recorded source cassette into another (playback) VCR.**

2 **Insert a blank cassette with its erasure prevention tab in place into your HV-FX4800K (recording) VCR.**

3 **Press INPUT to display "AV3" on the TV screen.**

4 **Press TAPE SPEED to select SP or LP.**

"LP" appears in the display window if the LP mode is selected.

5 **Set the other VCR to playback pause.**

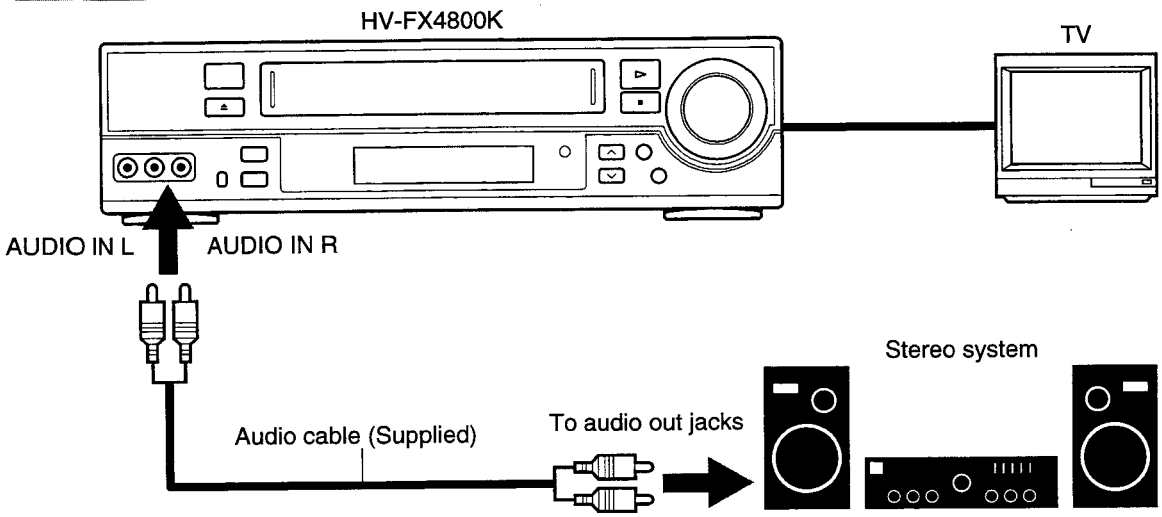
6 **Press ● REC/OTR on the recording VCR, then press ❚❚ PAUSE/STILL.**

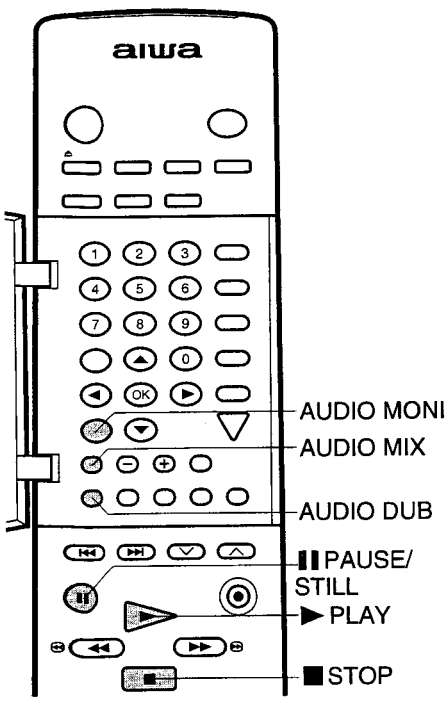
7 **Press ● REC/OTR on the recording VCR to start recording and set the other VCR to playback at the same time to start dubbing.**

Audio dubbing

You can add music from a stereo system onto the normal audio track. The monaural sound previously recorded is replaced while the original picture and Hi-Fi sound on the Hi-Fi track are retained. (See page 33 for the tape structure.)

Connecting with a stereo system





Notes

- If an audio dubbing is made with a monaural prerecorded tape, the previously recorded sound is erased.
- You cannot conduct audio dubbing with a cassette whose erasure prevention tab is removed.
- You can audio dub only from the front AUDIO/VIDEO IN jacks.

Operation

Before audio dubbing

Turn on the TV and set it for VCR reception.

1 **Turn on the stereo system, prepare the audio source, and set it to the playback stand-by mode.**

2 **Insert a Hi-Fi pre-recorded cassette with its erasure prevention tab in place into your HV-FX4800K VCR.**

3 **Press ▶ PLAY, then press ❚❚ PAUSE/STILL at the point you want to start audio dubbing.**

4 **Press AUDIO DUB to set the VCR to the audio dubbing stand-by mode.**

"A-D: STBY" lights in the display window.

5 **Start playing the audio source and press AUDIO DUB again at the same time to start audio dubbing.**

"A-DUB" lights in the display window, and "◓" appears on the TV screen.

6 **Press ■ STOP at the point you want to stop audio dubbing.**

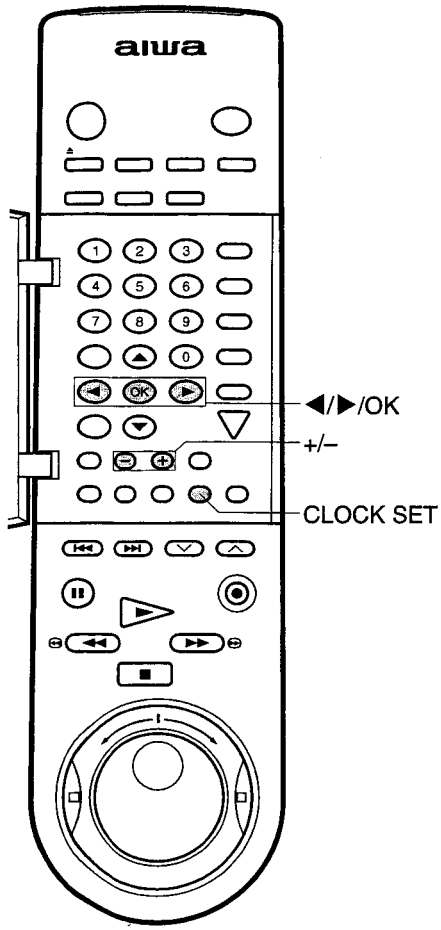
To listen to the audio dubbed tape

Press AUDIO MIX to display "MIX" in the display window.
The Hi-Fi audio and normal audio tracks can be heard at the same time.

To select the specific sound

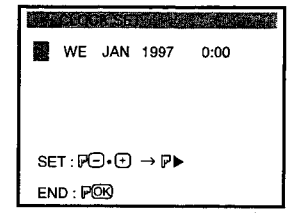
Press AUDIO MIX so that "MIX" in the display window goes off.
Press AUDIO MONI to select the sound. See page 15.

Setting the clock manually

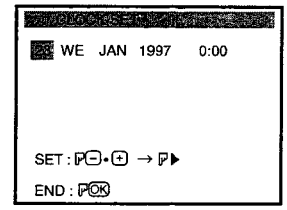


You must set the date and time manually for timer recordings if Auto Set-Up did not set them correctly.

1 **Press CLOCK SET.**

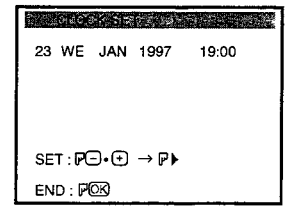


2 **Press +/– to set the day, then press ▶.**



3 **Set the month, year, and hours as in step 2.**

The day of the week will automatically appear when you set the year.



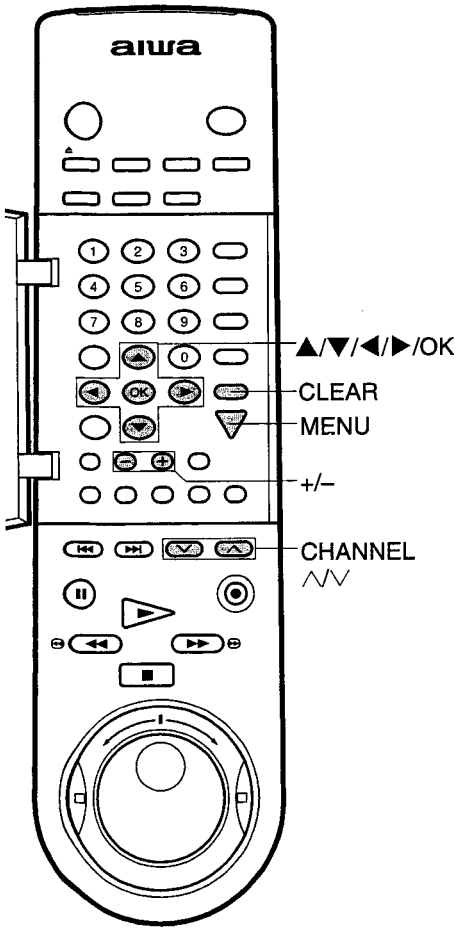
4 **Press +/– to set the minutes.**

5 **Press OK to start the clock.**

To correct the digits while setting

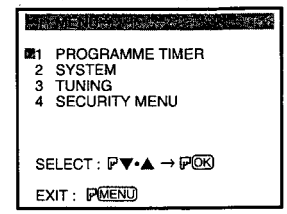
Before pressing OK, press ◀/▶ to select the item you want to correct. Reset the digits using +/–.

Setting the TV channels manually

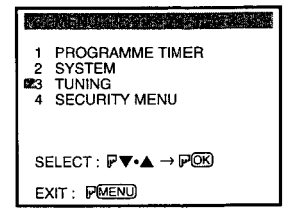


You must set the TV channels manually for recording TV programmes, if Auto Set-Up does not set them correctly.

1 **Press MENU.**



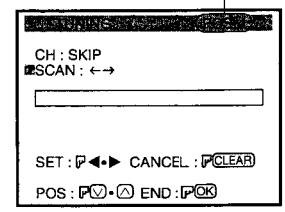
2 **Press ▲/▼ to move the cursor (☞) to TUNING, then press OK.**



3 **Press CHANNEL Λ/V to select the channel position number (from 1 to 32).**

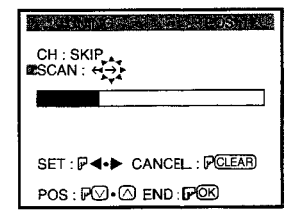
This channel position number, not the channel number, determines the order you select the TV stations with CHANNEL Λ/V after setting the channels.

Channel position number



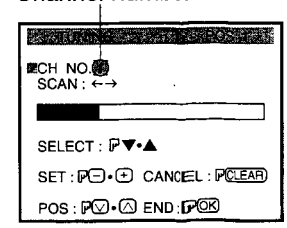
4 **Press ▶ to scan (◀ to scan down) the TV stations.**

The scan bar appears. If the TV station is received, the VCR will stop scanning and display the TV programme.



5 **Press ▲ to select CH NO., then press +/– to select the channel number for the scanned TV station so it corresponds to the following chart:**

Channel number



Channel number	TV station
1	BBC1
2	BBC2
3	ITV
4	CH4
5	CH5
6	Cable TV/Satellite (Set SKY NEWS if the cable TV or satellite receiver is connected with the aerial cable)

(The correct channel assignment is necessary for timer recording with VIDEO Plus+.)

6 **Repeat steps 3 through 5 until all the required stations are set.**

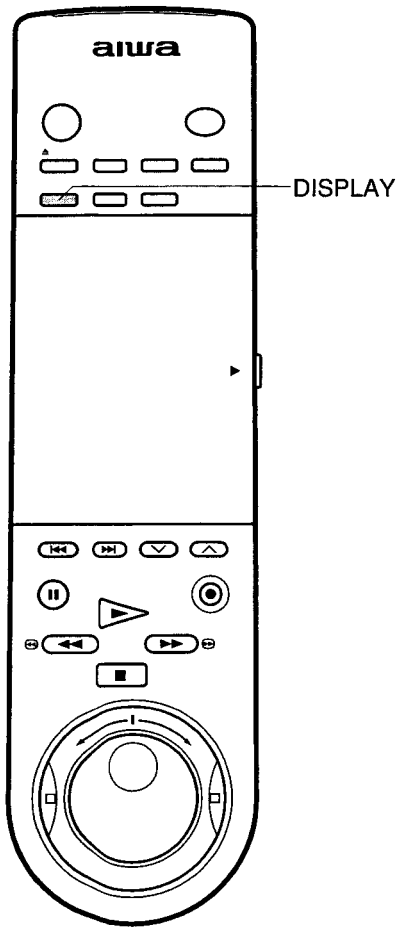
7 **Press OK to store the settings.**

Now you can select the channel with CHANNEL Λ/V in the order of the channel position numbers.

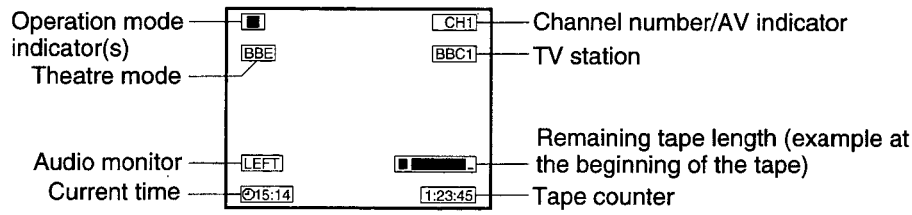
To erase a preset channel

After step 2 above, press CHANNEL Λ/V to select the channel you want to erase, then press CLEAR.

On-screen function display



Identifying the on-screen display items



Operation mode indicator

The current tape operation is indicated with the following marks:

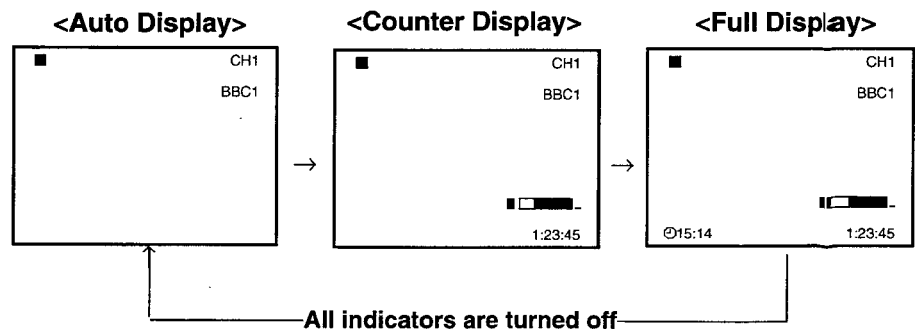
▶	: Play
◀◀	: Rewind
▶▶	: Fast-forward
⏏	: Cassette eject
● SP	: Recording, tape speed
●❚❚ LP	: Recording pause, tape speed mode
0 ↺ ▶▶ (◀◀)	: Fast-forward (or rewind) with the Counter Memory function
◀◀ → ▶	: Current and memorized successive operation
▶▶❙ (❙◀◀)-1	: Index search (index back search) and the count number
■	: Stop
◓ SP	: Audio Dubbing, tape speed

Important Note

When you record a video signal output from this VCR onto another VCR, turn off the on-screen function display. Otherwise, the mode indicators displayed on the TV screen will be recorded on the tape.

Changing the on-screen function display

Press DISPLAY. Each press changes the on-screen function display as follows:



Notes

- The indicators will be continuously displayed while Index Search or Counter Memory (see page 19) is operating even if Auto Display has been selected.
- The remaining tape length indicator may not be displayed correctly depending on the type or condition of the tape. Also, the remaining tape length indicator may not be displayed when you begin playback close to the end of the tape.

- **Auto Display**

  Only the affected indicator is displayed for 5 seconds, when the video operation mode changes.

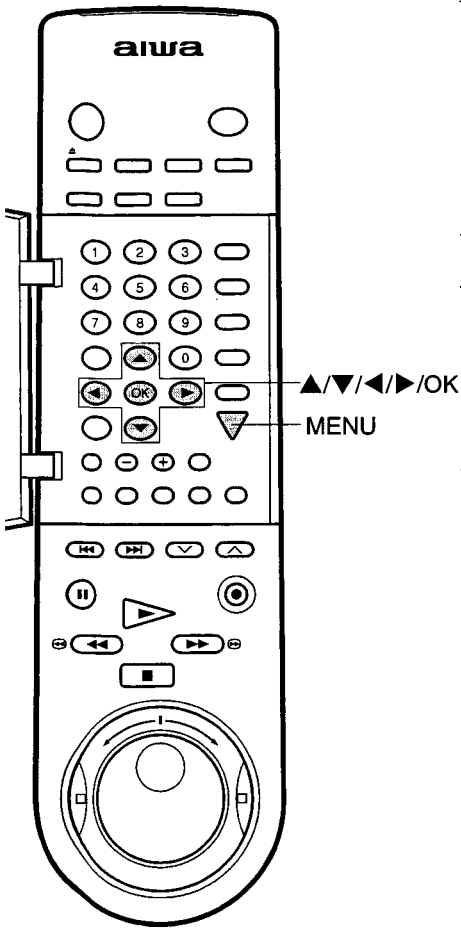
- **Counter Display**

  The tape counter is continuously displayed. Other indicators are displayed as in Auto Display.

- **Full Display**

  All indicators are displayed continuously.

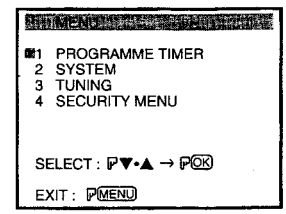
Changing the system set up – System Menu



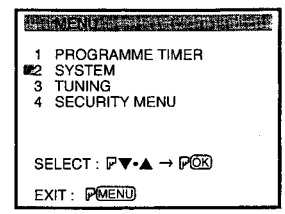
Note

System Menu settings are retained even if the power to the unit is interrupted.

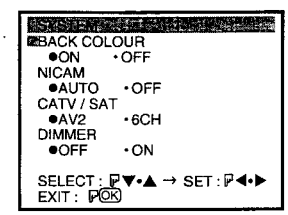
1 **Press MENU.**



2 **Press ▲/▼ to move the cursor (☞) to SYSTEM, then press OK.**



3 **Press ▲/▼ to move the cursor (☞) to the item you want to change.**



4 **Press ◀/▶ to change the setting.**

5 **Press OK.**

Menu choices

- **BACK COLOUR**

  Set this option to:

  ON to display a blue screen when playing unrecorded tape and when there is no TV signal

  OFF to turn off this function

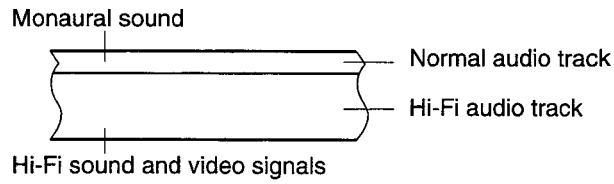
- **NICAM**

  Set this option to:

  AUTO to record NICAM broadcasts on Hi-Fi audio track. (When a non-NICAM broadcast is received, standard sound will be recorded on both Hi-Fi and normal audio tracks.)

  OFF to record standard sound on both Hi-Fi and normal audio tracks regardless of the broadcast type

<Tape structure>



- **CATV/SAT**

  Set this option to:

  AV2 if a cable TV or satellite receiver is connected to the VCR with a 21-pin scart cable

  6CH if a cable TV or satellite receiver is connected to the VCR with the aerial cable only

- **DIMMER**

  Set this option to:

  OFF to brighten the display window

  ON to reduce the brightness of the display window

ADDITIONAL INFORMATION

Troubleshooting

If the unit does not seem to operate properly, read the instructions again, then check the table below.

Symptom	Solution
The POWER button does not operate.	Make sure the mains lead is connected securely.
The playback picture is noisy.	• Make sure the TV is set to the video channel or video input. • Adjust the tracking manually when the tape quality is poor. • Although the unit cleans the video heads automatically, dirt may be accumulated after a long period of use. Clean the video heads with a commercially available video heads cleaning tape. • Make sure all the connections with the VCR are made correctly and securely.
There is no playback picture.	Set the TV to the video channel or video input.
TV reception is noisy or there is no TV reception.	• Connect the VCR to the aerial and TV correctly and securely. • Move the VCR away from the TV set.
Tape operation buttons do not work while the power is on and the cassette is inserted.	Moisture condensation may have occurred. Wait for about two hours until the moisture evaporates completely before you operate the VCR.
Abnormal operation has occurred.	External interference may have affected the internal microprocessor. Disconnect the mains lead from the mains outlet. Then connect it again.
The remote control does not operate.	Replace both batteries with new ones.
There is no sound.	Connect the VCR correctly and securely.
The timer does not operate.	Set the VCR clock correctly.
The VCR receives no or noisy NICAM.	• Make sure the aerial is receiving the NICAM broadcast clearly. • Make sure NICAM is set to AUTO in the SYSTEM menu.

Specifications

Video recording system		Rotary 2 head helical scanning system
Video head		Double azimuth 4 heads
Video signal		PAL colour signal, 625 lines, 50 fields
Recording/playback time		
	PAL	4 hours 20 minutes max. with E-260 tape, SP
		8 hours 40 minutes max. with E-260 tape, LP
	NTSC	(Playback only)
		3 hours max. with T-180 tape, SP
		6 hours max. with T-180 tape, LP
		9 hours max. with T-180 tape, EP
Fast forward/rewind time		Approx. 3min. with T-180 tape
Tape speed	PAL	SP: 23.39 mm/sec.
		LP: 11.69 mm/sec.
	NTSC	(Playback only)
		SP: 33.35 mm/sec.
		LP: 16.67 mm/sec.
		EP: 11.12 mm/sec.
Usable cassettes		VHS-PAL video cassettes
Channel coverage		UHF 21ch - 69ch
RF output		UHF channel between 21 and 69
RF output level		73 dBμ, 75 ohms
Video input level		0.5-2.0 Vp-p, 75 ohms, unbalanced
Video output level		1.0 Vp-p, 75 ohms, unbalanced
Horizontal resolution		240 lines (nominal)
Video S/N		43 dB (nominal)
Audio track		3 tracks (Hi-Fi sound 2 tracks, Normal sound 1 track)

Hi-Fi frequency response	20 Hz — 20 KHz
Hi-Fi dynamic range	More than 90 dB
Hi-Fi Wow and Flutter	Less than 0.01% (nominal)
Audio input level	SCART: –8 dB, 22 Kohms RCA: –8 dB, 22 Kohms
Audio output level	SCART: –8 dB less than 2.2 Kohms RCA: –8 dB less than 2.2 Kohms
Operating temperature	5°C — 40°C
Power requirements	230 V AC, 50 Hz
Power consumption	32 watts
Dimensions	380 (W) × 293 (D) × 99 (H) mm (15 × 11⅝ × 4 in.)
Weight	Approx. 5 kg (11 lbs.)
Supplied accessories	Aerial cable (1) Batteries (2) Mains lead (1) Remote control (1) Jack cover (1) Audio cable (1)

BBE

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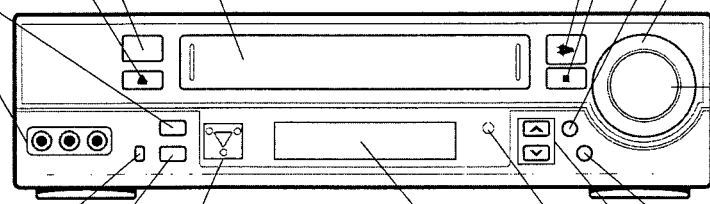
Design and specifications are subject to change without notice for the purpose of performance improvement.

Index to parts and controls

Refer to the pages indicated in ( ) for details.

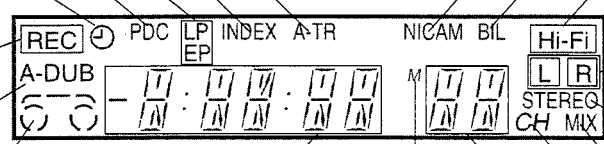
Front panel with the jack cover detached



Tape compartment (14)
POWER button (8)
⏏ EJECT button (15)
ONE-TOUCH PLAYBACK button (21)
VIDEO IN/AUDIO IN L/R jacks (28)
The jack cover is attached. Push the "PUSH OPEN" mark to detach the jack cover. Reattach it when you are not using the jacks.
FUNCTION GUIDE button (17)
THEATRE button (16)
THEATRE indicators (BBE, DYNAMIC, MIDNIGHT) (16)

▶ PLAY button (14)
■ STOP button (14)
● REC/OTR button (20)
Shuttle ring (18)
Jog dial (18)
II/▶I◀ PAUSE/STILL button (15)
CHANNEL Λ/V buttons (20)
REMOTE SENSOR (6)
Display window (this page)

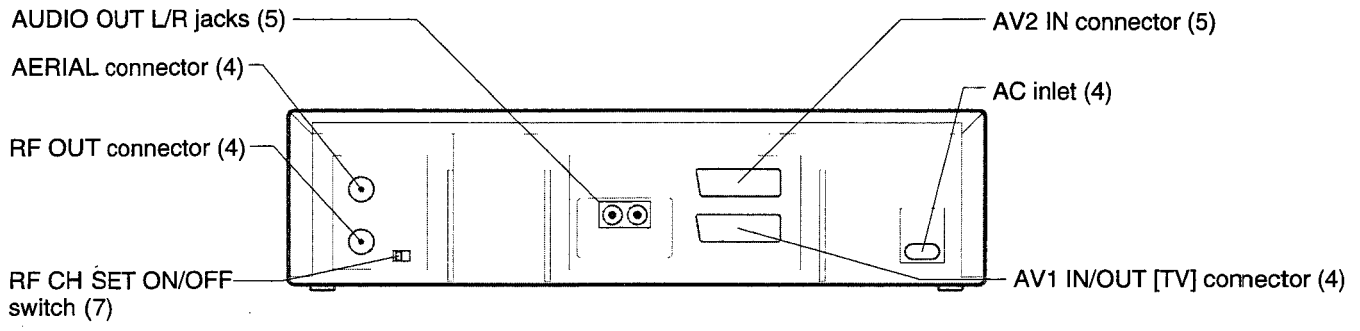
Display window



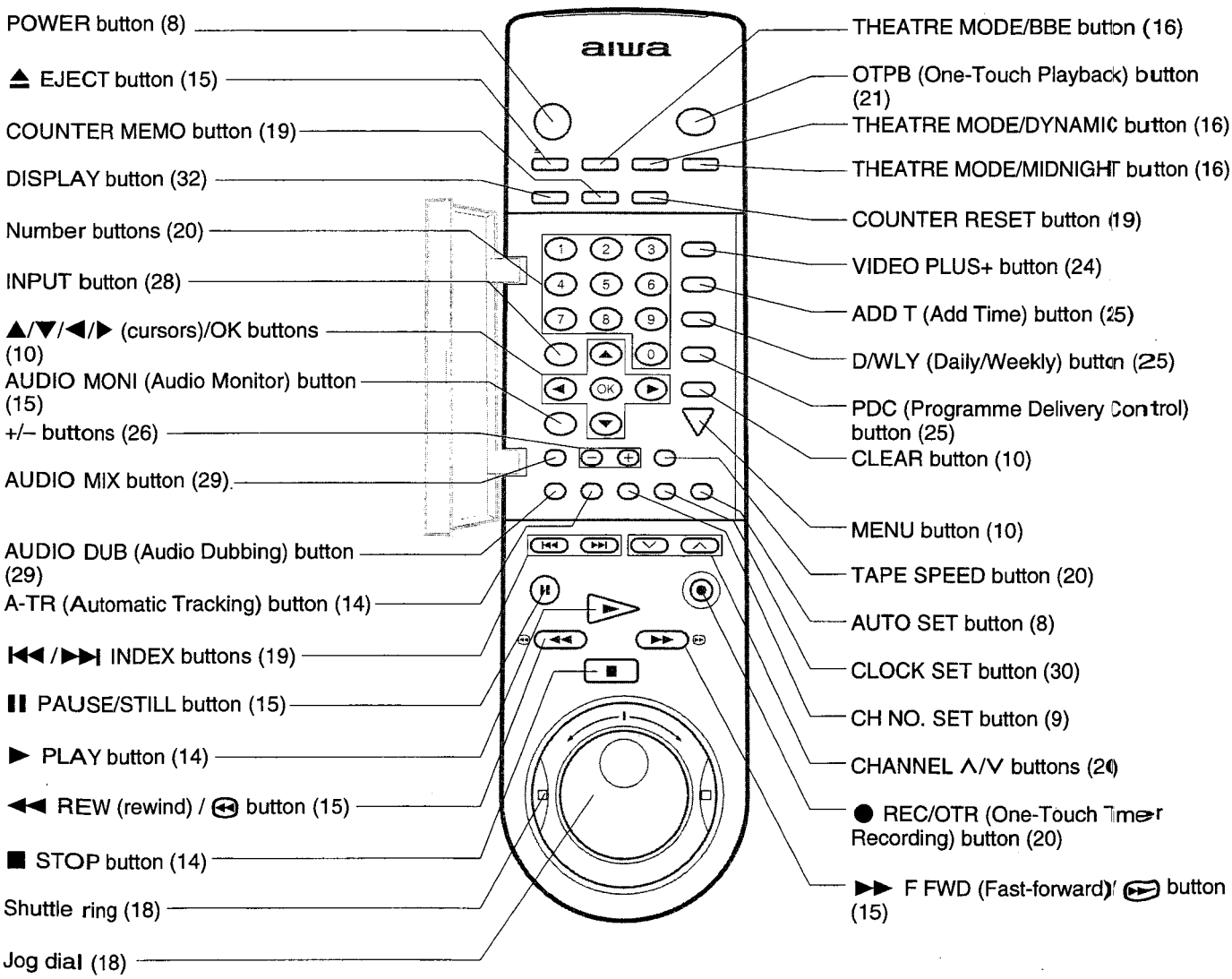
A-TR (Automatic Tracking) indicator (14)
INDEX indicator (19)
Tape speed indicator (20)
PDC indicator (25)
timer indicator (25)
REC indicator (20)
A-DUB (Audio Dubbing) indicator (29)
Cassette indicator
Lights while a cassette is inserted, flashes varying its speed according to the tape operation, and flashes while ejecting a cassette.
Clock/tape counter/tape operation indication

NICAM indicator (22)
BIL (Bilingual) indicator (22)
Hi-Fi indicator
Lights when playing back the Hi-Fi sound
L (Left) and R (Right) indicators (15)
STEREO indicator (22)
MIX indicator (29)
CH (channel) indicator (20)
Index number/channel number/ line input indication
M (Counter Memory) indicator (19)

Rear panel


AUDIO OUT L/R jacks (5)
AERIAL connector (4)
RF OUT connector (4)
RF CH SET ON/OFF switch (7)
AV2 IN connector (5)
AC inlet (4)
AV1 IN/OUT [TV] connector (4)

Remote control with the front cover opened


POWER button (8)
⏏ EJECT button (15)
COUNTER MEMO button (19)
DISPLAY button (32)
Number buttons (20)
INPUT button (28)
▲/▼/◀/▶ (cursors)/OK buttons (10)
AUDIO MONI (Audio Monitor) button (15)
+/– buttons (26)
AUDIO MIX button (29)
AUDIO DUB (Audio Dubbing) button (29)
A-TR (Automatic Tracking) button (14)
⏮/⏭ INDEX buttons (19)
⏸ PAUSE/STILL button (15)
▶ PLAY button (14)
◀◀ REW (rewind) / ⏪ button (15)
■ STOP button (14)
Shuttle ring (18)
Jog dial (18)
THEATRE MODE/BBE button (16)
OTPB (One-Touch Playback) button (21)
THEATRE MODE/DYNAMIC button (16)
THEATRE MODE/MIDNIGHT button (16)
COUNTER RESET button (19)
VIDEO PLUS+ button (24)
ADD T (Add Time) button (25)
D/WLY (Daily/Weekly) button (25)
PDC (Programme Delivery Control) button (25)
CLEAR button (10)
MENU button (10)
TAPE SPEED button (20)
AUTO SET button (8)
CLOCK SET button (30)
CH NO. SET button (9)
CHANNEL ∧/∨ buttons (20)
● REC/OTR (One-Touch Timer Recording) button (20)
▶▶ F FWD (Fast-forward)/ ⏩ button (15)

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